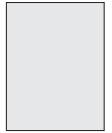




# OPTOELEMENTI



LED DIODE  
ODSTOJNICI ZA LED DIODE  
KUČITA ZA LED DIODE  
INFRACRVENE LED DIODE  
FOTO DIODE  
FOTOTRANZISTORI  
FOTOOTPORNICI  
DISPLEJI  
OPTIČKI SENZORI  
OPTOKAPLERI  
PREGLED ZAMENA





# OPTOELEMENTI

O

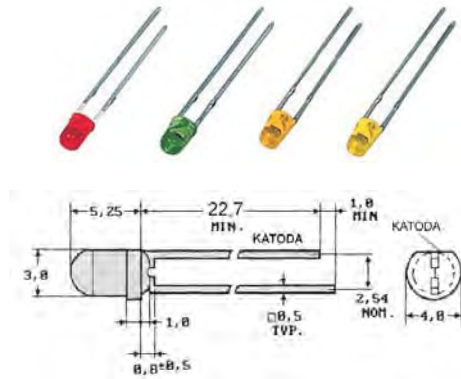
LED DIODE . . . . . OLE  
OKRUGLE LED DIODE . . . . . OLEO

Ø 3 mm

Ø3 mm DIFUZNE . . . . . OLEO3D

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)
CR	0,20	crvena	655	76	0,8	10	1,7
ZE	0,20	zelena	565	76	8,7	10	2,1
ZU	0,20	zuta	505	76	3,7	10	2,1
PL	3,50	plava	428	60	18	20	3,8

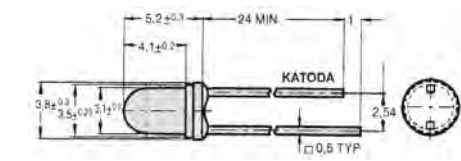
WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti



Ø3 mm TRANSPARENTE . . . . . OLEO3T

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)
CR	0,25	crvena	697	45	8,7	10	2,1
ZE	0,25	zelena	565	45	40	10	2,1
ZU	0,25	zuta	585	45	40	10	2,1

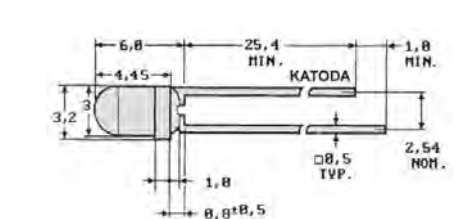
WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti



Ø3 mm VISOKOEFIKASNE DIFUZNE . . OLEO3V

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)
CR	0,25	crvena	635	60	8,7	10	2,0
ZE	0,25	zelena	565	60	12,6	10	2,1
ZU	0,25	zuta	585	60	5,6	10	2,1
NA	0,25	oranz	625	60	12,6	10	2,0

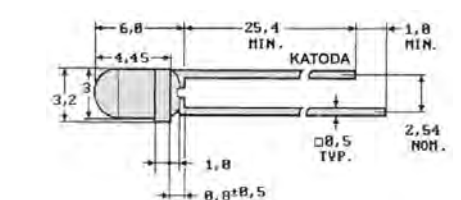
WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti



Ø3 mm (STRUJ A I = 2mA) DIFUZNE . . .OLEO3S

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)
CR	0,30	crvena	635	60	2,5	2	1,8
ZE	0,30	zelena	565	60	1,1	2	2,0
ZU	0,30	zuta	585	60	1,1	2	2,0

WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti





# OPTOELEMENTI

0

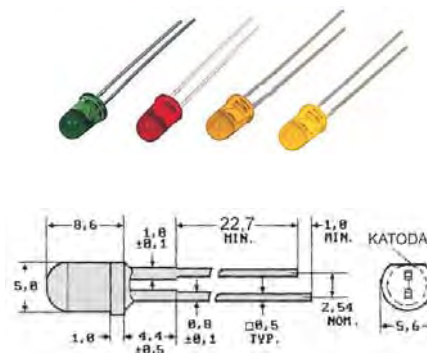
## LED DIODE . . . . . OLE OKRUGLE LED DIODE . . . . . OLEO

Ø 5 mm

Ø 5 mm DIFUZNE . . . . . OLEO5D

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)
CR	0,20	crvena	635	54	0,6	10	1,7
ZE	0,20	zelena	565	54	2,5	10	2,1
ZU	0,20	zuta	585	54	2,5	10	2,1
PL	3,50	plava	428	40	25	20	3,8

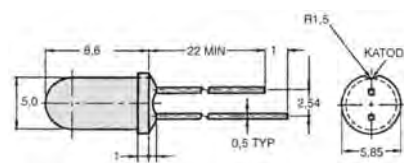
WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti



Ø5 mm TRANSPARENTNE . . . . . OLEO5T

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)
CR	0,25	crvena	697	40	8,7	10	2,1
ZE	0,25	zelena	565	40	60	10	2,1
ZU	0,25	zuta	585	40	40	10	2,1

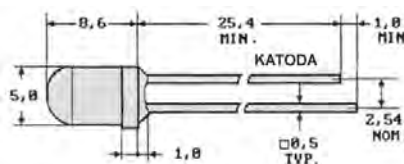
WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti



Ø5 mm VISOKOEFIKASNE DIFUZNE . . OLEO5V

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)
CR	0,25	crvena	635	36	19	10	2,0
ZE	0,25	zelena	565	36	19	10	2,1
ZU	0,25	zuta	585	36	8,7	10	2,1
NA	0,25	oranz	625	60	12,6	10	2,0

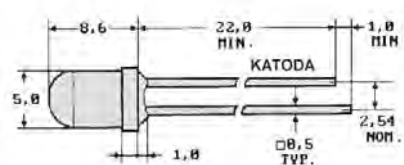
WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti



Ø5 mm (STRUJ A I = 2mA) DIFUZNE . . OLEO5S

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)
CR	0,30	crvena	635	50	3,7	2	1,8
ZE	0,30	zelena	565	50	3,7	2	2,0
ZU	0,30	zuta	585	50	3,7	2	2,0

WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti





# OPTOELEMENTI

O

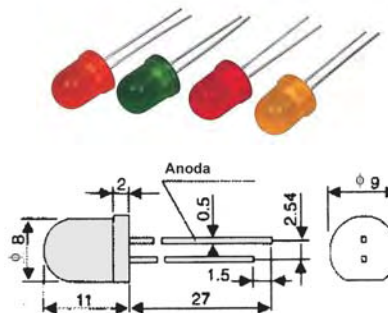
LED DIODE . . . . . OLE  
OKRUGLE LED DIODE . . . . . OLEO

Ø 8 mm

Ø8 mm DIFUZN E . . . . . OLEO8

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)
CR	0,60	crvena	625	50	12,6	20	2,0
ZE	0,60	zelena	565	50	12,6	20	2,1
ZU	0,60	zuta	590	50	12,6	20	2,1
NA	0,80	oranz	625	50	12,6	20	2,0

WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti

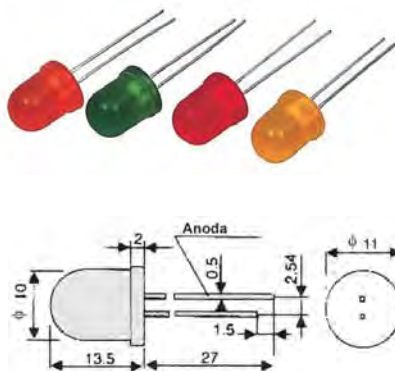


Ø10 mm

Ø10 mm DIFUZNE . . . . . OLEO10

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)
CR	0,80	crvena	625	50	12,6	20	2,0
ZE	0,80	zelena	565	50	12,6	20	2,1
ZU	0,80	zuta	590	50	12,6	20	2,1
NA	1,00	oranz	625	50	12,6	20	2,0

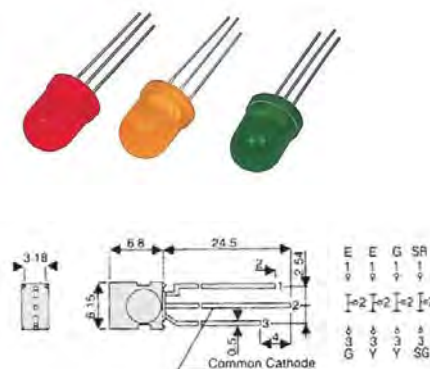
WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti



Ø10 mm DIFUZNE 3 pina . . . . . OLEO103

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)
CR	1,50	crvena	625	50	12,6	20	2,0
ZE	1,50	zelena	565	50	12,6	20	2,1
ZU	1,50	zuta	590	50	12,0	20	2,1

WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti





# OPTOELEMENTI

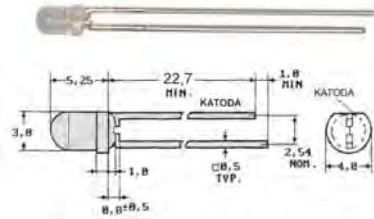
O

LED DIODE . . . . . OLE  
 SJAJNO PROVIDNE LED DIODE . . . . . OLES

Ø 3 mm

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (A)	U <sub>F</sub> (V)
CR	0,40	crvena	625	50	32-125	10	1,8

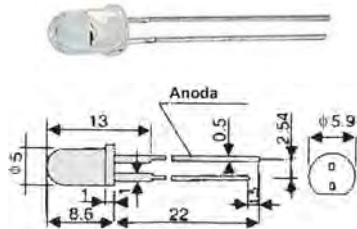
WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
 I<sub>F</sub> = struja pri datoj jačini svetlosti, U<sub>F</sub> = propusni napon



Ø 5 mm

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (A)	U <sub>F</sub> (V)
CR	0,40	crvena	625	30	50-200	10	1,8
ZE	0,40	zelena	565	30	20-80	10	2,1
ZU	0,40	zuta	585	30	20-80	10	2,1

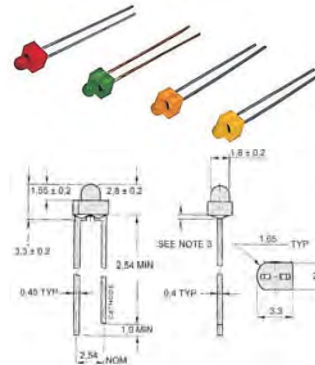
WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
 I<sub>F</sub> = struja pri datoj jačini svetlosti, U<sub>F</sub> = propusni napon



MIKRO LED DIODE 1,8 mm . . . . . OLEM

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (A)	U <sub>F</sub> (V)
CR	0,80	crvena	655	38	3,7	20	1,7
ZE	0,80	zelena	565	70	3,7	20	1,8
ZU	0,80	zuta	590	70	3,7	20	1,8
NA	0,80	oranz	625	70	3,7	20	1,8

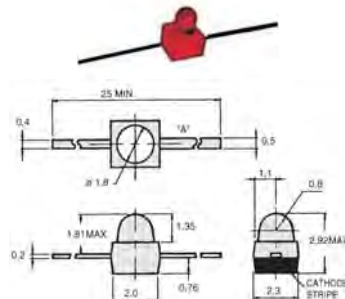
WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
 I<sub>F</sub> = struja pri datoj jačini svetlosti, U<sub>F</sub> = propusni napon



AKSIJALNE MIKRO LED DIODE. . . . . OLEA

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (A)	U <sub>F</sub> (V)
CR	0,80	crvena	697	90	1,7	20	2,1
ZE	0,80	zelena	565	90	3,7	20	2,1
ZU	0,80	zuta	585	90	5,6	20	2,1
PL	4,00	plava	428	20	50	20	3,8

WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
 I<sub>F</sub> = struja pri datoj jačini svetlosti, U<sub>F</sub> = propusni napon





# OPTOELEMENTI

O

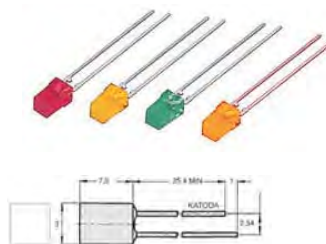
LED DIODE . . . . . OLE

KOCKASTE LED DIODE . . . . . OLEK

**3 x 3 mm . . . . . OLEK3**

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (A)	U <sub>F</sub> (V)
CR	0,70	crvena	660	50	0,4	20	1,6
ZE	0,70	zelena	585	50	1,0	20	2,4
ZU	0,70	zuta	565	100	1,25	20	2,4
NA	0,80	oranz	630	50	1,50	20	2,0

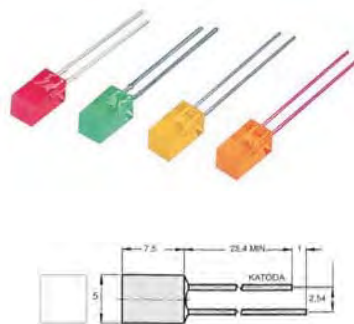
WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
I<sub>F</sub> = struja pri datoj jačini svetlosti, U<sub>F</sub> = propusni napon



**5 x 5 mm . . . . . OLEK5**

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (A)	U <sub>F</sub> (V)
CR	0,70	crvena	660	50	0,4	20	1,6
ZE	0,70	zelena	585	50	1,0	20	2,4
ZU	0,70	zuta	565	120	1,25	20	2,4
NA	0,80	oranz	625	110	3,2	20	2,4

WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
I<sub>F</sub> = struja pri datoj jačini svetlosti, U<sub>F</sub> = propusni napon



**PRAVOUGAONE LED DIODE 2x5 mm. . . OLEPR**

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (A)	U <sub>F</sub> (V)
CR	0,40	crvena	697	140	1,1	20	2,1
ZE	0,40	zelena	565	140	3,7	20	2,1
ZU	0,40	zuta	585	140	3,7	20	2,1

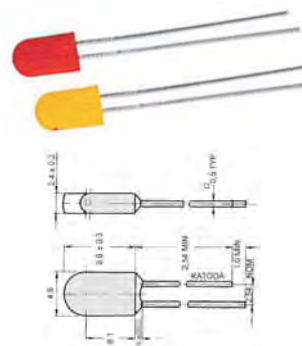
WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
I<sub>F</sub> = struja pri datoj jačini svetlosti, U<sub>F</sub> = propusni napon



**POLUOKRUGLE LED DIODE 2,4x4,9 mm OLEPO**

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (A)	U <sub>F</sub> (V)
CR	0,60	crvena	697	70	2,5	20	2,1
ZU	0,60	zuta	585	25	1,0	20	2,4

WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
I<sub>F</sub> = struja pri datoj jačini svetlosti, U<sub>F</sub> = propusni napon





# OPTOELEMENTI

O

**LED DIODE . . . . . OLE**  
**TROUGLE LED DIODE . . . . . OLET**

**3 x 3 mm . . . . . OLET3**

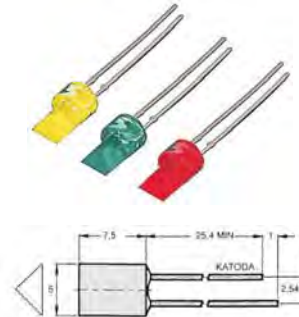
Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (A)	U <sub>F</sub> (V)
CR	0,80	crvena	660	80	0,4	20	1,6
ZE	0,80	zelena	585	80	1,0	20	2,4
ZU	0,80	zuta	565	80	1,0	20	2,4

WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
 I<sub>F</sub> = struja pri datoj jačini svetlosti, U<sub>F</sub> = propusni napon

**5 x 5 mm . . . . . OLET5**

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (A)	U <sub>F</sub> (V)
CR	0,80	crvena	660	80	0,4	20	1,6
ZE	0,80	zelena	585	80	1,0	20	2,4
ZU	0,80	zuta	565	80	1,0	20	2,4

WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
 I<sub>F</sub> = struja pri datoj jačini svetlosti, U<sub>F</sub> = propusni napon



**CILINDRIČNE LED DIODE . . . . . OLEC**

**Ø 3 mm. . . . . OLEC3**

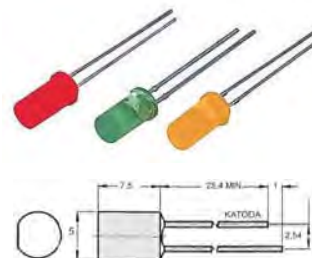
Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (A)	U <sub>F</sub> (V)
CR	0,60	crvena	660	50	0,4	20	1,6
ZE	0,60	zelena	565	50	1,0	20	2,4
ZU	0,60	zuta	585	50	1,0	20	2,4

WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
 I<sub>F</sub> = struja pri datoj jačini svetlosti, U<sub>F</sub> = propusni napon

**Ø 5 mm. . . . . OLEC5**

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (A)	U <sub>F</sub> (V)
CR	0,60	crvena	660	50	0,4	20	1,6
ZE	0,60	zelena	565	50	1,0	20	2,4
ZU	0,60	zuta	590	100	1,25	20	2,4

WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
 I<sub>F</sub> = struja pri datoj jačini svetlosti, U<sub>F</sub> = propusni napon



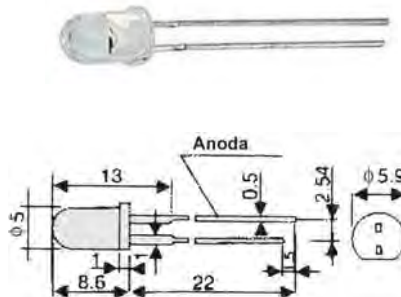


# OPTOELEMENTI

O

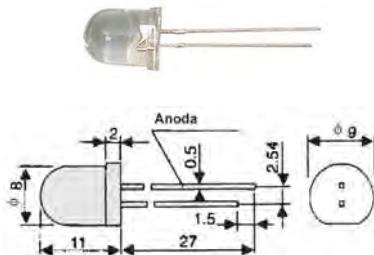
**LED DIODE . . . . . OLE**  
**ULTRASVETLE LED DIODE (SA VISOKIM SJAJEM) . . . . . OLEU**  
**Ø 5 mm . . . . . OLEU5**

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)
CR/A	0,60	crvena	632	30	700	20	2,0
CR/B	1,00	crvena	639	40	1150	20	1,9
CR/C	1,20	crvena	632	30	1200	20	2,0
CR/D	0,70	crvena	632	15	1700	20	2,0
CR/E	1,20	crvena	639	15	2400	20	1,9
CR/F	1,50	crvena	639	30	3200	20	2,0
CR/G	1,50	crvena	639	22	4200	20	2,0
CR/H	1,20	crvena	639	8	5500	20	1,9
CR/I	1,20	crvena	632	8	7200	20	2,0
NA/B	0,60	oranz	611	30	700	20	2,0
NA/C	0,70	oranz	611	15	1700	20	2,0
ZU/A	0,60	zuta	588	30	700	20	2,0
ZU/B	1,20	zuta	588	30	1200	20	2,0
ZU/C	0,70	zuta	588	15	1700	20	2,0
ZU/D	1,20	zuta	594	30	2200	20	2,1
ZU/E	1,50	zuta	594	22	2500	20	2,1
ZU/F	1,20	zuta	588	15	3100	20	2,0
ZU/G	0,80	zuta	588	8	3600	20	2,0
ZU/H	1,20	zuta	588	8	7200	20	2,0



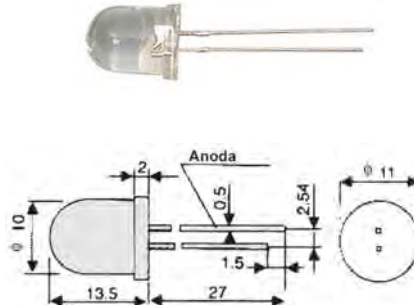
**Ø8 mm . . . . . OLEU8**

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)
CR/C	0,90	crvena	660	40	1000 1600	20	2



**Ø10 mm . . . . . OLEU10**

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)
CR/B	0,80	crvena	660	40	500 1000	20	2
CR/C	0,90	crvena	660	40	1000 1600	20	2
CR/E	1,80	crvena	660	40	2000 3000	20	2
CR/F	2,00	crvena	660	40	3000 4500	20	2



WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
 U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti





# OPTOELEMENTI

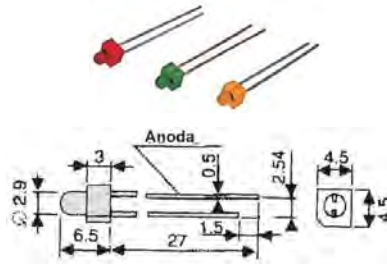
O

LED DIODE . . . . . OLE  
BLINK LED DIODE . . . . . OLEB

Ø 3 mm . . . . . .OLEB3

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	U <sub>F</sub> (V)
CR	2,50	crvena	660	60	1,3/3,2	9
ZE	2,50	zelena	565	60	5/20	9
ZU	2,50	zuta	590	60	5/20	9

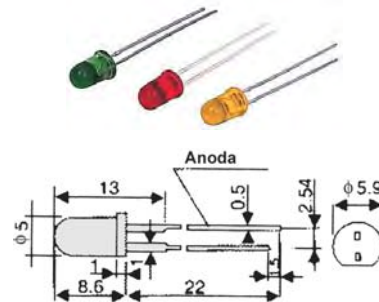
WL = talasna duzina, AW = ugao zračenja  
LS = jačina svetlosti U<sub>F</sub> = propusni napon



Ø 5 mm . . . . . .OLEB5

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	U <sub>F</sub> (V)
CR	1,50	crvena	625	60	1,2/2	9
ZE	2,50	zelena	565	60	3,2/8	9
ZU	2,50	zuta	590	60	3,2/8	9

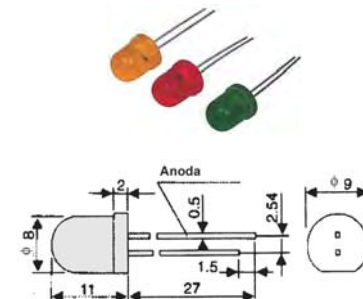
WL = talasna duzina, AW = ugao zračenja  
LS = jačina svetlosti U<sub>F</sub> = propusni napon



Ø 8 mm . . . . . .OLEB8

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	U <sub>F</sub> (V)
CR	3,20	crvena	660	60	20/100	9
ZE	3,20	zelena	565	60	20/70	9
ZU	3,20	zuta	590	60	20/70	9

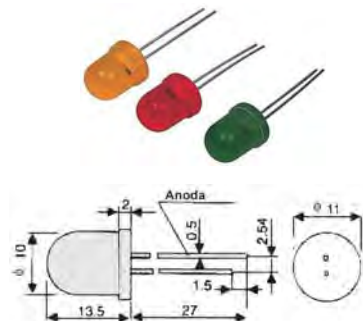
WL = talasna duzina, AW = ugao zračenja  
LS = jačina svetlosti U<sub>F</sub> = propusni napon



Ø 10 mm . . . . . .OLEB10

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	U <sub>F</sub> (V)
CR	3,50	crvena	660	60	20/100	9
ZE	3,50	zelena	565	60	20/70	9
ZU	3,50	zuta	590	60	20/70	9

WL = talasna duzina, AW = ugao zračenja  
LS = jačina svetlosti U<sub>F</sub> = propusni napon





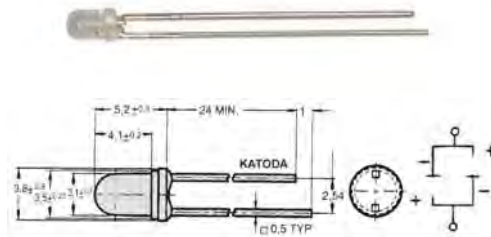
# OPTOELEMENTI

O

- LED DIODE . . . . . OLE
- DMBOJNE LED DIODE . . . . . OLED
- Ø 3 mm . . . . . OLED3
- Ø 3 mm 2 pina . . . . . OLED3

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)
CR/ZE	1,20	crveno	625	60	8-40	20	1,7
		zelena	590	60	5-20	20	2,1
CR/ZU	1,20	crveno	625	60	8-40	20	1,7
		zuta	585	60	5-20	20	2,1
ZE/ZU	1,20	zeleno	590	60	5-20	20	2,1
		zuta	585	60	5-20	20	2,1

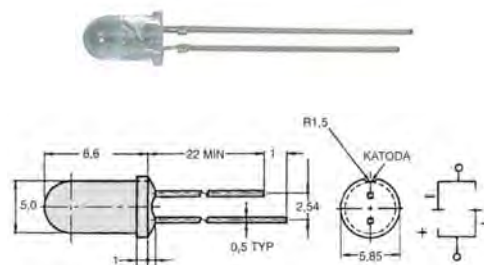
WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
 U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti



- Ø 5 mm . . . . . OLED5
- Ø5 mm 2 pina . . . . . OLED52

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)
CR/ZE	1,20	crveno	625	60	20-50	20	1,7
		zelena	565	60	12-40	20	2,1
CR/ZU	1,20	crveno	625	60	20-50	20	1,7
		zuta	590	60	5-20	20	2,1
ZE/ZU	1,20	zeleno	565	60	12-40	20	2,1
		zuta	590	60	5-20	20	2,1

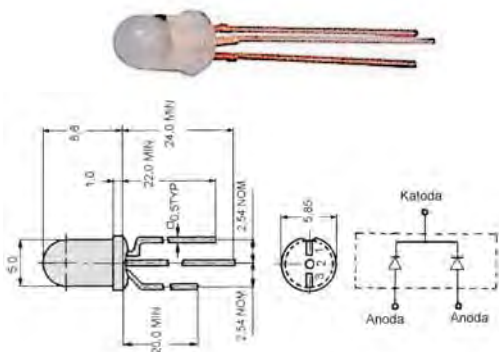
WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
 U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti



- Ø5 mm 3 pina . . . . . OLED53

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)
CR/ZE	1,20	crveno	625	60	20-90	20	1,7
		zelena	565	60	20-70	20	2,1
CR/ZU	1,20	crveno	625	60	20-90	20	1,7
		zuta	590	60	20-60	20	2,1
ZE/ZU	1,20	zeleno	565	60	20-70	20	2,1
		zuta	590	60	20-60	20	2,1
ZE/NA	1,20	zeleno	565	30	20-70	20	2,1
		oranz	621	30	5-20	20	2,1

WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
 U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti





## OPTOELEMENTI

O

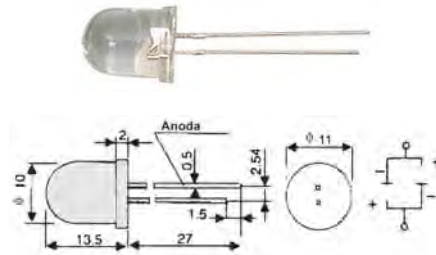
LED DIODE . . . . . OLE

DVOBOJNE LED DIODE . . . . . OLED

Ø10 mm 2 pina . . . . . OLED10

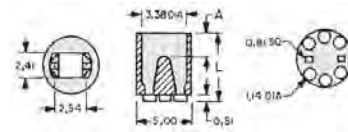
Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)
CR/ZE	1,50	crveno	625	50	30-90	20	2,0
		zelena	565	50	20-60	20	2,1
CR/ZU	1,50	crveno	625	50	30-90	20	2,0
		zuta	590	50	20-60	20	2,1
ZE/ZU	1,50	zeleno	565	50	20-60	20	2,1
		zuta	590	50	20-60	20	2,1

WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti



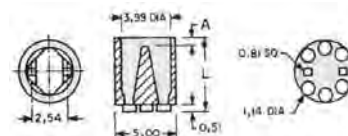
ODSTOJNICI ZA LED DIODE Ø 3 mm . . . . . OODL3

Tip	Cena	Dimenzije u mm	
		A	L
03	0,50	0,64	3,05
07	0,50	2,03	7,62
09	0,50	3,56	9,14
12	0,50	3,43	12,19
19	0,50	1,02	19,05

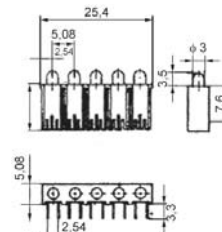


ODSTOJNICI ZA LED DIODE Ø 5 mm . . . . . OODL5

Tip	Cena	Dimenzije u mm	
		A	L
03	0,50	0,64	3,05
07	0,50	2,03	7,62
09	0,50	3,56	9,14
12	0,50	3,43	12,19
19	0,50	1,02	19,05



ODSTOJNICI ZA LED DIODE Ø3 mm - NOSAČ . . . . . OODN



Cena: 2,50



# OPTOELEMENTI

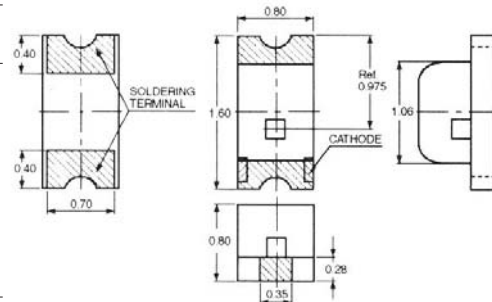
O

LED DIODE . . . . . OLE  
 SMD LED DIODE . . . . . OLESMD

## 0603

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	LS (po mA)	U <sub>F</sub> (V)
CR	0,50	crvena	660	130	20	10	1,8
CRU	0,60	ultra crvena	639	130	80	20	2,0
OR	0,50	oranz	635	130	6	10	2,0
ORU	0,60	ultra oranz	621	130	80	20	2,0
ZE	0,50	zelena	565	130	6	10	2,1
ZU	0,50	zuta	585	130	6	10	2,1
ZUU	0,60	ultra zuta	598	130	80	20	2,0
PL	3,00	plava	428	110	4,5	20	3,8

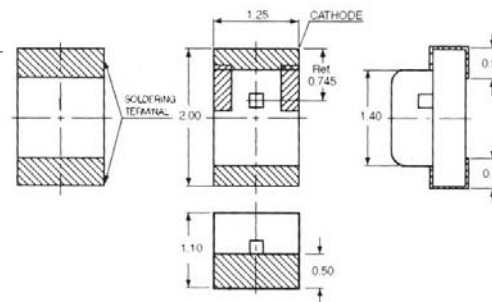
WL= Talasna duzina,AW= Ugao zračenja,LS= Intenzitet svetlosti,  
 U<sub>F</sub> = Napon provođenja



## 0805

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	LS (po mA)	U <sub>F</sub> (V)
CR	0,60	crvena	660	130	20	20	1,8
CRU	0,90	ultra crvena	660	130	90	20	1,8
OR	0,50	oranz	635	130	6	10	2,0
ORU	0,60	ultra oranz	621	130	80	20	2,0
ZE	0,50	zelena	565	130	6	10	2,1
ZEU	0,50	ultra zelena	565	130	14,2	20	2,1
ZU	0,50	zuta	585	130	6	10	2,1
ZUU	0,60	ultra zuta	598	130	80	20	2,0
PL	3,00	plava	428	110	4,5	20	3,8

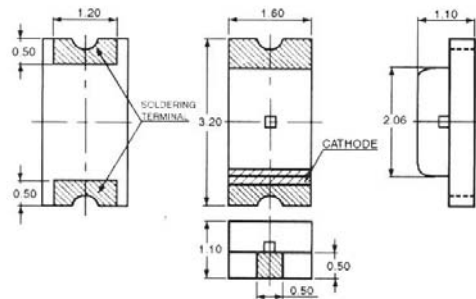
WL= Talasna duzina,AW= Ugao zračenja,LS= Intenzitet svetlosti,  
 U<sub>F</sub> = Napon provođenja



## 1206

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	LS (po mA)	U <sub>F</sub> (V)
CR	0,50	crvena	660	130	20	10	1,8
CRU	0,60	ultra crvena	639	130	80	20	2,0
ORU	0,60	ultra oranz	621	130	80	20	2,0
ZE	0,50	zelena	565	130	6	10	2,1
ZU	0,50	zuta	585	130	6	10	2,1
ZUU	0,60	ultra zuta	598	130	80	20	2,0
PL	3,00	plava	428	110	4,5	20	3,8

WL= Talasna duzina,AW= Ugao zračenja,LS= Intenzitet svetlosti,  
 U<sub>F</sub> = Napon provođenja





# OPTOELEMENTI

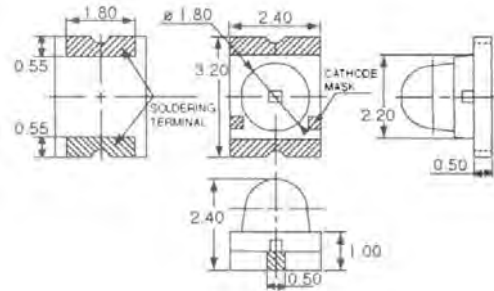
O

LED DIODE . . . . . OLE  
 SMD LED DIODE . . . . . OLESMD

## 1209

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	LS (po mA)	U <sub>F</sub> (V)
CR	0,60	crvena	660	25	160	10	1,8
CRU	0,70	ultra crvena	639	25	850	20	2,0
OR	0,60	oranz	621	25	25	10	2,0
ZE	0,60	zelena	565	25	40	10	2,1
ZEU	0,80	ultra zelena	574	25	650	20	2,0
ZU	0,60	zuta	585	25	16	10	2,1

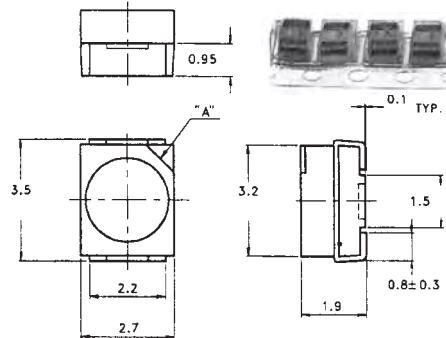
WL= Talasna duzina, AW= Ugao zračenja, LS= Intenzitet svetlosti,  
 U<sub>F</sub> = Napon provođenja



## PLCC

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	LS (po mA)	U <sub>F</sub> (V)
CR	0,50	crvena	635	120	6	10	2,0
CRU	0,60	ultra crvena	639	120	100	20	2,0
OR	0,50	oranz	610	120	6	10	2,1
ORU	0,60	ultra oranz	611	120	100	20	2,0
ZE	0,50	zelena	565	120	9	10	2,1
ZEU	0,60	ultra zelena	576	120	60	20	2,0
ZU	0,50	zuta	585	120	6	10	2,1
ZUU	0,60	ultra zuta	591	120	100	20	2,0
PL	3,00	plava	430	120	11	20	4,5
PLU	4,00	ultra plava	468	120	90	20	3,5

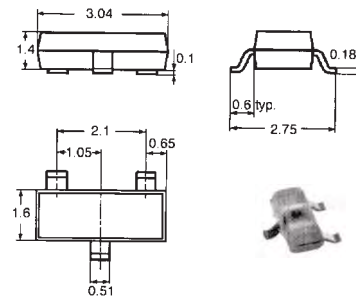
WL= Talasna duzina , AW= Ugao zračenja, LS= Intenzitet svetlosti,  
 U<sub>F</sub> = Napon provođenja



## SOT 23

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	LS (po mA)	U <sub>F</sub> (V)
CR	0,70	crvena	697	140	1,1	20	2,1
CRU	1,20	ultra crvena	660	140	12,6	20	1,8
ZU	0,70	zuta	585	140	2,8	20	2,1
ZE	0,70	zelena	565	140	2,8	20	2,1

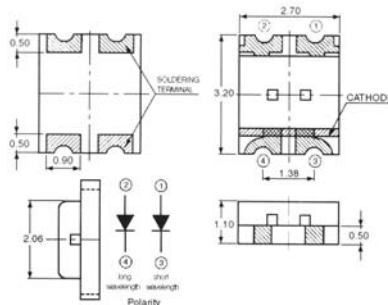
WL= Talasna duzina, AW= Ugao zračenja, LS= Intenzitet svetlosti,  
 U<sub>F</sub> = Napon provođenja



## 1210 DVOBOJNE

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	LS (po mA)	U <sub>F</sub> (V)
ZE/OR	1,00	zeleno/oranz	565/635	130	6	10	2,1
ZE/ZU	1,00	zeleno/zuta	565/585	130	6	10	2,1

WL= Talasna duzina, AW= Ugao zračenja, LS= Intenzitet svetlosti,  
 U<sub>F</sub> = Napon provođenja

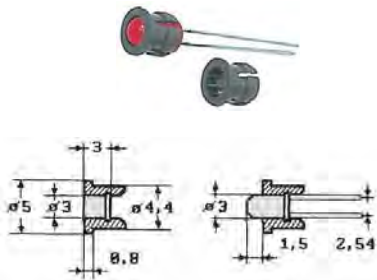




# OPTOELEMENTI

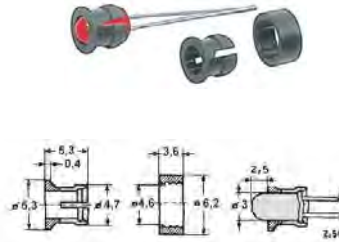
O

KUĆITA ZA LED DIODE ..... OKL  
 PLASTIČNA KUĆITA ..... OKLP



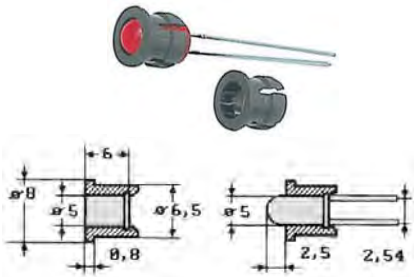
3C

0,15



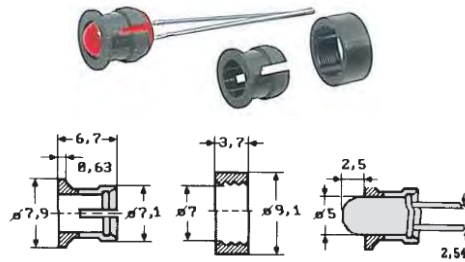
3P

0,25



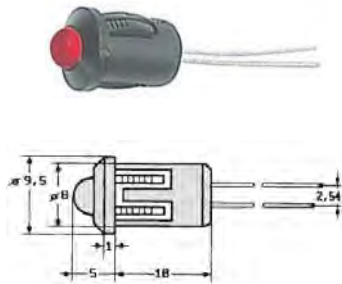
5C

0,15



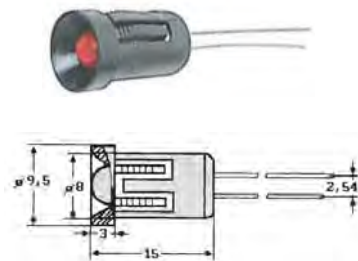
5P

0,25



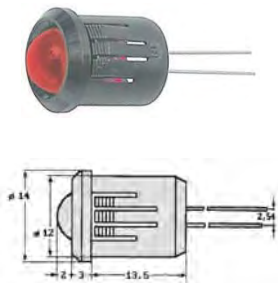
5S

0,50



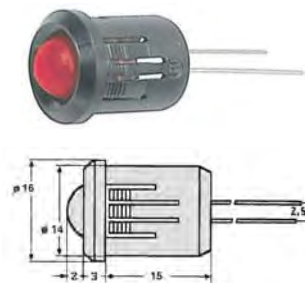
5U

0,60



8

0,70



10

1,00



# OPTOELEMENTI

O

KUČITA ZA LED DIODE ..... OKL  
 METALNA KUČITA ..... OKLM



**3S** 1,00

**5S** 1,30

**3U** 1,10

**5U** 1,40

**8** 2,50

**10** 3,50



# OPTOELEMENTI

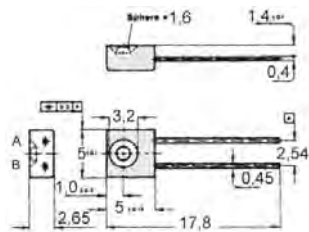
O

## INFRACRVENE LED DIODE . . . . . OIRD

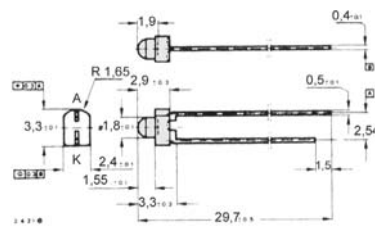
Tip	Cena	WL (nm)	AW (°)	LS (mW/sr)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)
<b>CQX48B</b>	2,20	950	25	33	50	2,8
<b>CQY37</b>	1,40	950	25	45	50	1,3
<b>CQY99</b>	1,80	950	60	4,5	100	1,3
<b>IRS5</b>	0,60	940	20	1,4	20	1,2
<b>LD271</b>	1,00	950	25	16	100	1,3
<b>LD274</b>	1,60	950	25	60	100	1,3
<b>LTE309</b>	0,60	940	40			
<b>LTE5208AC</b>	0,60	940	40	1,0	20	1,2
<b>SFH415T</b>	2,00	950	11		100	

WL = talasna duzina, AW = ugao zracenja, LS = jacina svetlosti  
 U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jacini svetlosti

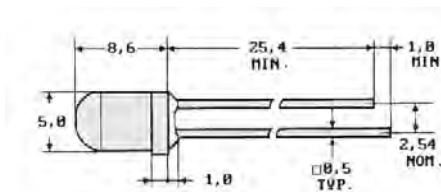
CQX48B



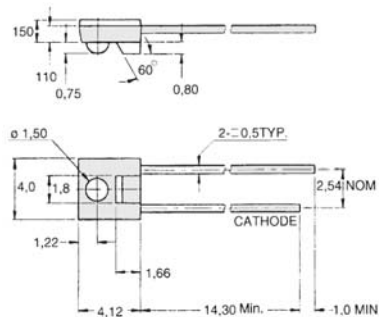
CQY37



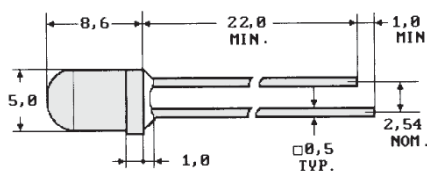
CQY99, IRS5, LD271, LD274



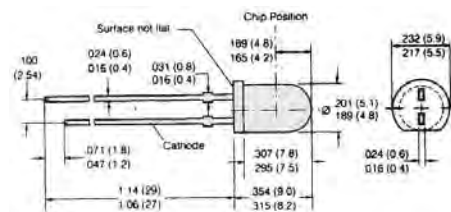
LTE309



LTE5208AC



SFH415T







# OPTOELEMENTI

O

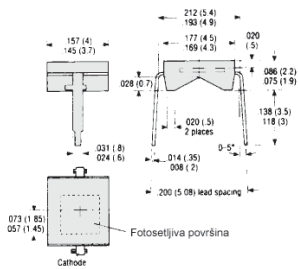
## FOTO DIODE

OFD

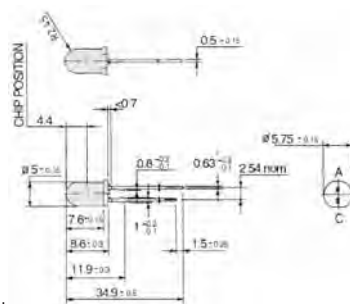
Tip	Cena	WL (nm)	A <sub>NS</sub> (°)	I <sub>DR</sub> (nA)	I <sub>S</sub> (μA)	O (mA)	U <sub>R</sub> (V)
BP104	4,00	940	120	2	40	17	20
BPV10NF	1,80	940	40	5	60	60	60
BPW34	2,20	900	130	30	50	50	32
BPW41N	2,50	925	130	2	40	40	32
BPW43	3,00	900	50	1	15	15	32
LTR516	1,20	900	140	30	2	2	30
LTR526	1,20	900	140	30	2	2	30
LTR536	1,20	900	140	30	2	2	30

WL = talasna duzina maksimuma osetljivosti, A<sub>NS</sub> = ugao zatamnjenja, I<sub>DR</sub> = struja zajamnjenja, I<sub>S</sub> = inverzna struja pri osvetljaju (U<sub>R</sub>=5V), O = foto osetljivost, U<sub>R</sub> = napon proboja

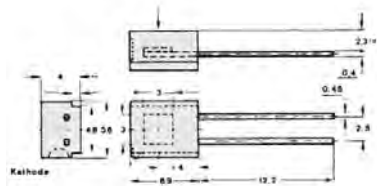
BP104



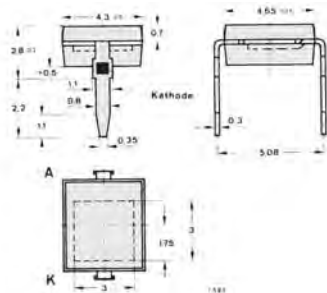
BPV10NF



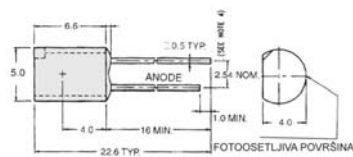
BPW41N



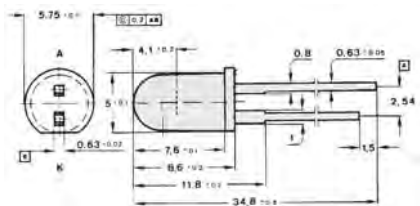
BPW34



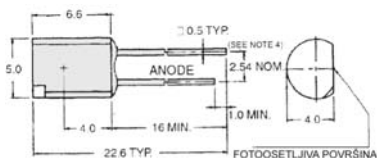
LTR516



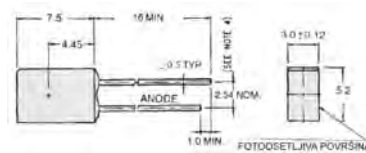
BPW43



LTR526



LTR536





# OPTOELEMENTI

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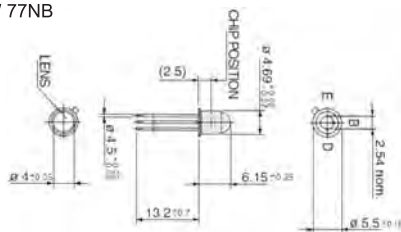
## FOTOTRANZISTORI

OFT

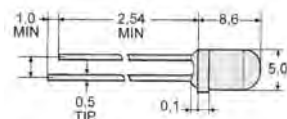
Tip	Cena	WL (nm)	A <sub>NS</sub> (°)	U <sub>CEO</sub> (V)	I <sub>CO</sub> (μA)	I <sub>C</sub> (mA)
BP103-2	6,00	850	55	50	100	0,08/0,16
BP103B	3,00	850	25	50	50	0,63/0,16
BPW39B	2,00	780	-	32	100	1
BPW40	2,50	830	20	32	100	1
BPW77NB	4,00	850	20	70	100	20
BPX43-3	6,00	870	15	50	50	1,25/2,50
BPX81-2	3,00	850	18	32	50	0,25/0,50
BPX81-3	5,00	850	36	32	200	2,2
BPY62-3	8,00	850	8	50	50	0,80/1,60
IRE5	0,60	940	-	30	-	4
LTR301	0,80	940	40	30	100	1
LTR3208	1,00	940	20	30	100	4
LTR4206	0,60	940	20	30	100	4
SFH309	1,50	860	12	35	15	1/2

WL = talasna duzina maksimuma osetljivosti, A<sub>NS</sub> = ugao zračenja, U<sub>CEO</sub> = napon kolektor emitor, I<sub>CO</sub> = max.kolektor struja pri zatamnjenju, I<sub>C</sub> = struja kolektora u provođenju

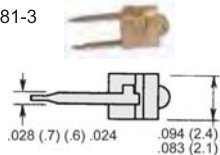
BPW 77NB



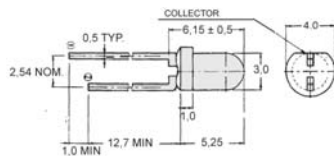
BPW40, IRE5, LTR3208



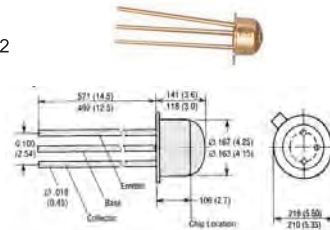
BPX 81-2, BPX81-3



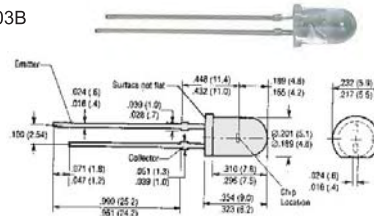
LTR4206



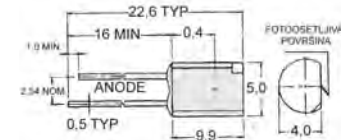
BP103-2



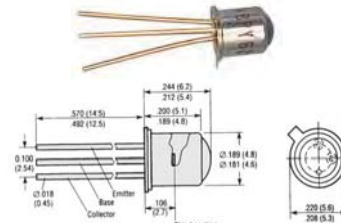
BP103B



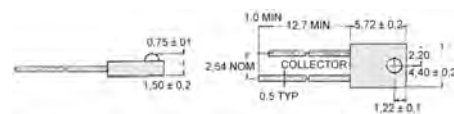
BPW39B



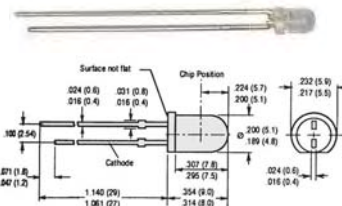
BPX43-3, BPY62-3



LTR301



SFH309





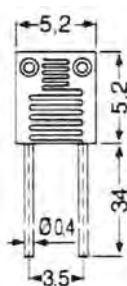
# OPTOELEMENTI

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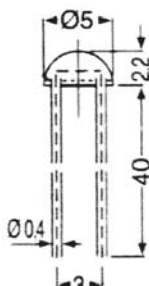
## FOTOOTPORNICI . . . . . OFO

**Tehnički podaci:**

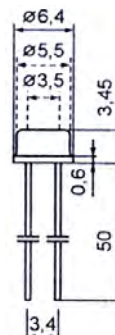
Otpornost pri 1000 L<sub>x</sub>: 75-300Ω  
 Otpornost u potpunom mraku: 30min  
 Nakon prestanka osvetljava: 10MΩ  
 Kapacitivnost: 6pF  
 Granične urednosti: U<sub>Bmax</sub>:150V, P(40°)<sub>max</sub>: 0,2W



M 9960



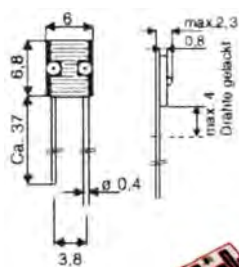
A 9060



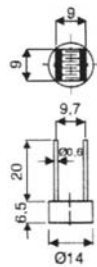
A 1060



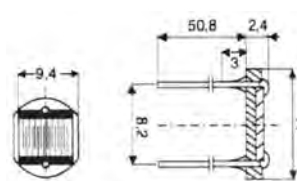
Tip	Cena	U <sub>max</sub> (V)	Case
M 9960	3,50	100	5 x 5 mm
A 9060	3,40	150	φ 5 mm
A 1060	4,00	200	TO18



FW 150



FW 200



FW 300



Tip	Cena	R <sub>10</sub> (kΩ)	R <sub>01</sub> (kΩ)	R <sub>05</sub> (kΩ)	V <sub>max</sub> (V)	P <sub>max</sub> (mW)	tan (mS)	tab (mS)	TK (%K)
FW150	7,50	28,0	1,50	4,20	150	250	36	28	0,4
FW200	12,00	8,3	85	255	200	200	35	28	0,4
FW300	10,00	8,0	100	300	300	200	50	35	0,4

R<sub>10</sub> - otpornost pri 10 L<sub>x</sub>, R<sub>01</sub> - otpornost posle 1 sec., R<sub>05</sub> - otpornost posle 5 sec., V<sub>max</sub> - max napon, P<sub>max</sub> - max snaga



# OPTOELEMENTI

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## DISPLEJI . . . . . ODIS

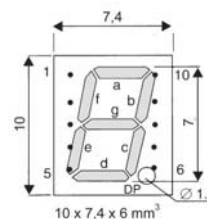
### 7 SEGMENTI LED DISPLEJI



#### 7mm 10 x 7,4mm

Tip	Cena	Com	Boja	WL (nm/mA)	LS ( $\mu$ cd/mA)
7A	2,50	A	crvena	697/20	750/10
7K	2,50	K	crvena	697/20	750/10

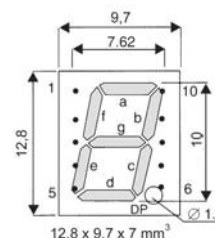
WL - talasna duzina, LS - jačina svetlosti



#### 10mm 12,8 x 9,7mm

Tip	Cena	Com	Boja	WL (nm/mA)	LS ( $\mu$ cd/mA)
10A	2,00	A	crvena	697/20	800/10
10K	2,00	K	crvena	697/20	800/10

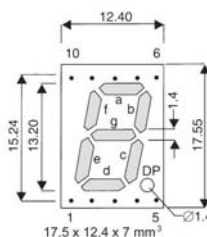
WL - talasna duzina, LS - jačina svetlosti



#### 13,2mm 17,5 x 12,4mm

Tip	Cena	Com	Boja	WL (nm/mA)	LS ( $\mu$ cd/mA)
13A	1,80	A	crvena	635/20	2000/10
13K	1,80	K	crvena	635/20	2000/10

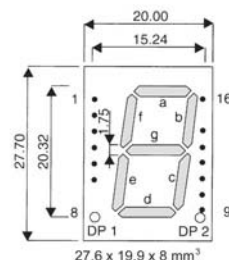
WL - talasna duzina, LS - jačina svetlosti



#### 20,3mm 27,6 x 19,9mm

Tip	Cena	Com	Boja	WL (nm/mA)	LS ( $\mu$ cd/mA)
20A	2,50	A	crvena	635/20	2400/10
20K	2,50	K	crvena	635/20	2400/10

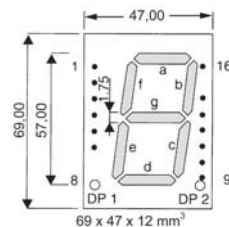
WL - talasna duzina, LS - jačina svetlosti



#### 57mm 69 x 47mm

Tip	Cena	Com	Boja	WL (nm/mA)	LS ( $\mu$ cd/mA)
57A	12,00	A	crvena	635/20	10/10
57K	12,00	K	crvena	635/20	10/10

WL - talasna duzina, LS - jačina svetlosti





# OPTOELEMENTI

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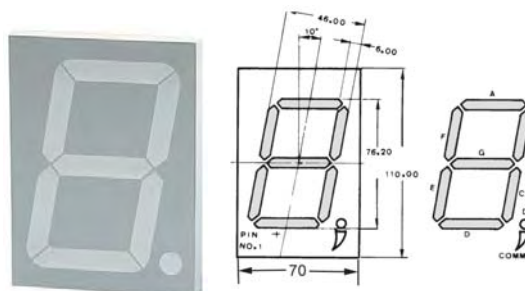
## DISPLEJI . . . . . ODIS

### 7 SEGMENTI LED DISPLEJI

76mm 110 x 70mm

Tip	Cena	Com	Boja	WL (nm/mA)	LS ( $\mu$ cd/mA)
76A	38,00	A	crvena	635/40	30/20
76K	38,00	K	crvena	635/40	30/20

WL - talasna duzina, LS - jačina svetlosti

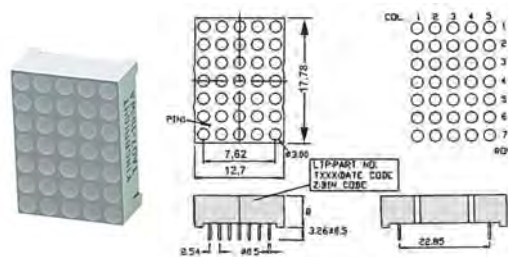


### 5 x 7 LED MATRIX DISPLEJI

18 mm

Tip	Cena	Com	Boja	WL (nm/mA)	LS ( $\mu$ cd/mA)
M18A	12,00	A	crvena	660/20	12000/80
M18K	12,00	K	crvena	660/20	12000/80

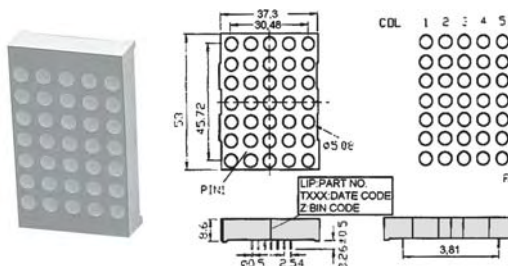
WL - talasna duzina, LS - jačina svetlosti



30 mm

Tip	Cena	Com	Boja	WL (nm/mA)	LS ( $\mu$ cd/mA)
M30A	14,00	A	crvena	660/20	12000/80
M30K	14,00	K	crvena	660/20	12000/80

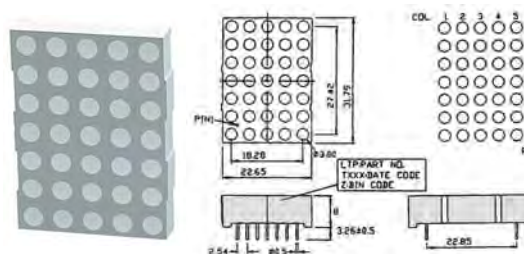
WL - talasna duzina, LS - jačina svetlosti



50 mm

Tip	Cena	Com	Boja	WL (nm/mA)	LS ( $\mu$ cd/mA)
M50A	15,00	A	crvena	660/20	12000/80
M50K	15,00	K	crvena	660/20	12000/80

WL - talasna duzina, LS - jačina svetlosti

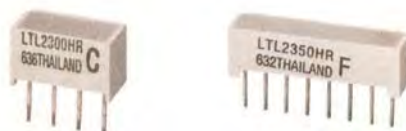




# OPTOELEMENTI

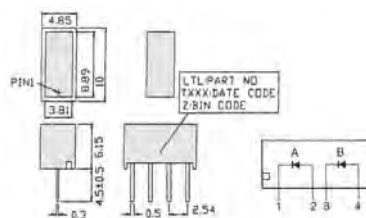
O

DISPLEJI . . . . . ODIS  
LED BARGRAPH DISPLEJI . . . . . ODISB



Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)	Case
2300HR	2,00	crvena	635	100	4,2	10	2,0	SIL-4
2400Y	2,00	zuta	585	100	4,2	10	2,1	SIL-4
2500G	2,00	zelena	565	100	4,2	10	2,1	SIL-4

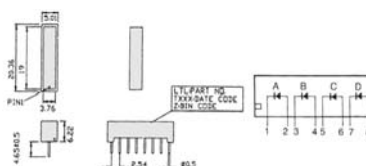
WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti



SIL-4

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)	Case
2350HR	4,00	crvena	635	100	8,0	10	2,0	SIL-8
2450Y	4,00	zuta	585	100	8,0	10	2,1	SIL-8
2550G	4,00	zelena	565	100	8,0	10	2,1	SIL-8

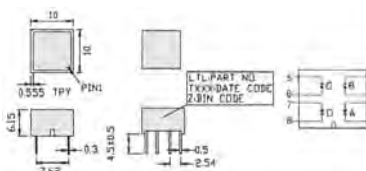
WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti



SIL-8

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)	Case
2655HR	4,00	crvena	635	100	8,0	10	2,0	DIP-8
2755Y	4,00	zuta	585	100	8,0	10	2,1	DIP-8
2855G	4,00	zelena	565	100	8,0	10	2,1	DIP-8

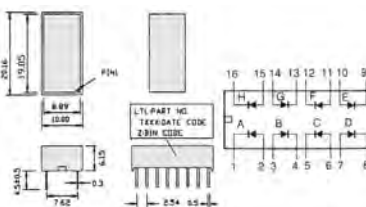
WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti



DIP-8

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)	Case
2685HR	6,00	crvena	635	100	16,0	10	2,0	DIP-16
2785Y	6,00	zuta	585	100	16,0	10	2,1	DIP-16
2885G	6,00	zelena	565	100	16,0	10	2,1	DIP-16

WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti  
U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti



DIP-16



# OPTOELEMENTI

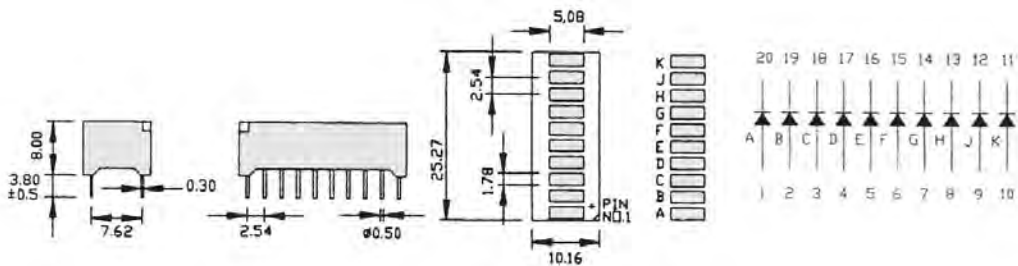
O

## DISPLEJI . . . . . ODIS LED BARGRAPH DISPLEJI . . . . . ODISB

Tip	Cena	Boja	WL (nm)	AW (°)	LS (mcd)	I <sub>F</sub> (mA)	U <sub>F</sub> (V)	Case
1000HR	4,00	10 x crvena	635	100	2,0	10	2,0	DIP-20
1000Y	4,00	10 x zuta	585	100	2,0	10	2,1	DIP-20
1000G	4,00	10 x zelena	565	100	2,0	10	2,1	DIP-20
1000GR	5,00	7 x zelena 3 x crvena	565 635	100 100	2,0 2,0	10 10	2,1 2,1	DIP-20

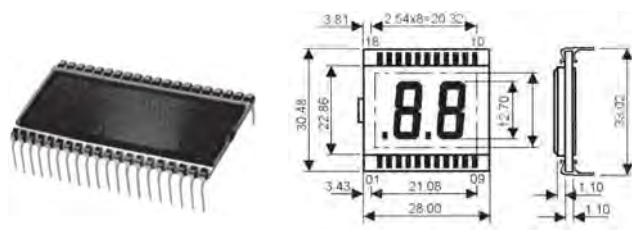


WL = talasna duzina, AW = ugao zračenja, LS = jačina svetlosti,  
U<sub>F</sub> = propusni napon, I<sub>F</sub> = struja pri datoj jačini svetlosti

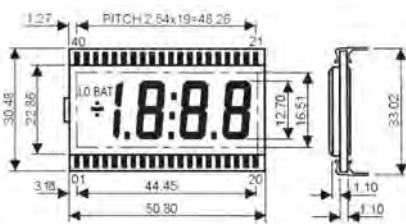


## LCD DISPLEJI . . . . . ODISLCD

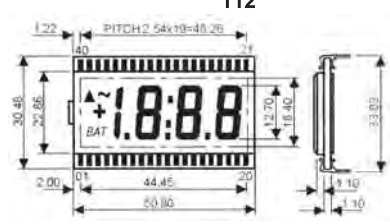
Tip	Cena	Cifre	Visina cifre	Dimenzije (mm)	U (V)
112	6,00	2	12,7	28x30	3
113	12,00	3,5+2	12,7	51x30	3
114	12,00	3,5+4	12,7	51x30	3
118	10,00	4+3	8,0	38x20	3
125	20,00	8	13	94x30	3



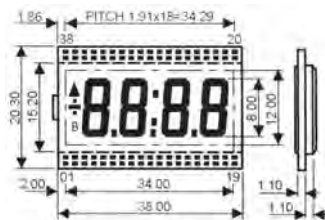
112



113



114



118



125



# OPTOELEMENTI

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## DISPLEJI . . . . . ODIS EKVIVALENTI

FND 357 = FND 367

DL 304 = DL 704 = MAN 74 A

FND 507 = DL 507 A = TL701 = HD 1131 = SL 1119

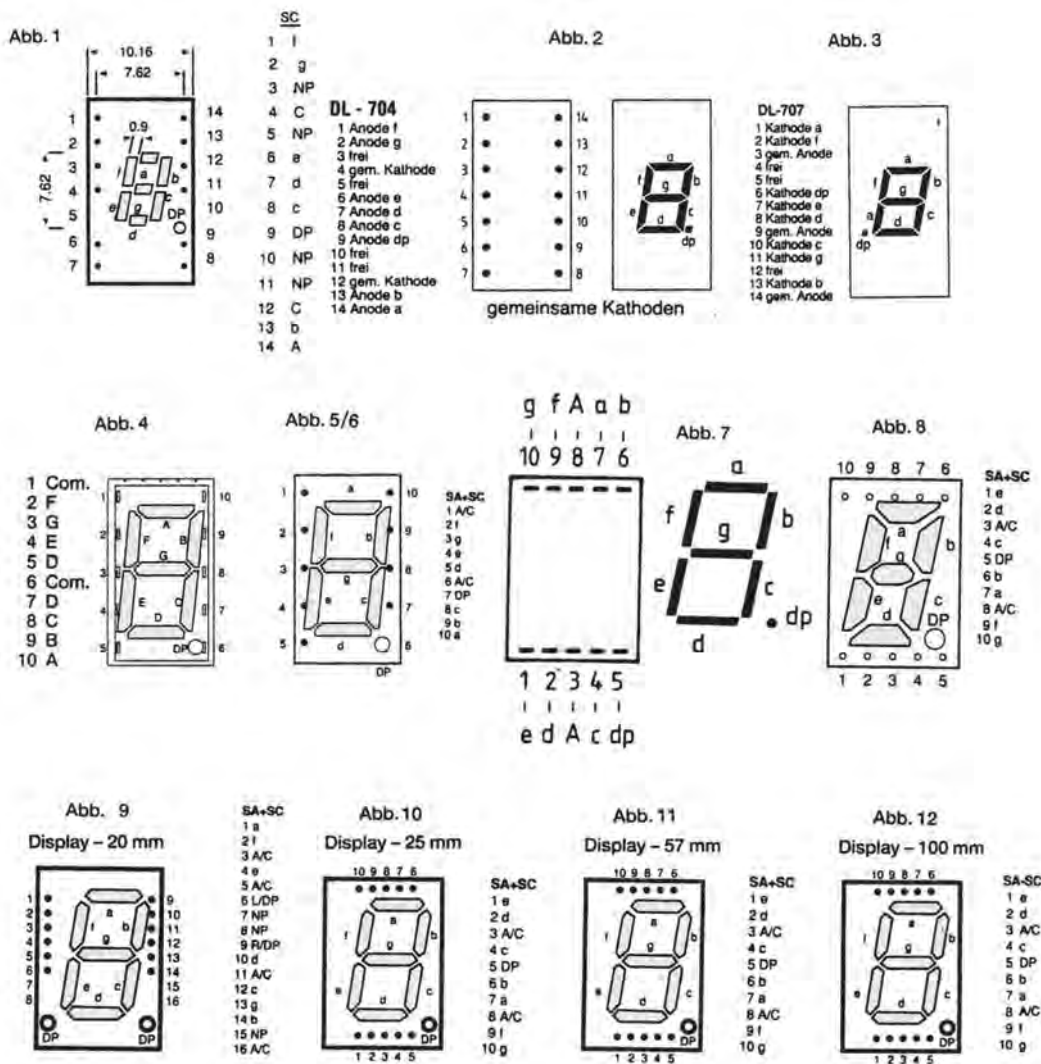
DL 707 = DL 307 = MAN 72 A

D 350 PK = HD 1133 = TL702 = DL 500 K = SL 1110

D 350 PA = TLR 369 = SL 1119 = HD 1131 = SL 1119

SL 1119 = D 350 PA = TLR 369 = TDSR 5150

SL 1110 = D 350 PK = TLR 368 = TDSR 5160







# OPTOELEMENTI

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## OPTIČKI SENZORI . . . . . OOS

### CNY36, CNY37

#### Tehnički podaci

Predajnik

Napon direktne polarizacije ( $I_F=20\text{mA}$ )

$U_F = 1,2\text{V}$

Napon proboja ( $I_R=100\mu\text{A}$ )

$U_{BR} = 5\text{V}$

Prijemnik

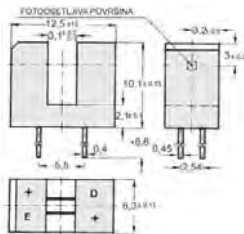
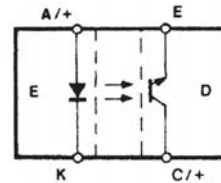
Napon proboja kolektorsko-emitorskog spoja ( $I_C=1\text{mA}$ )

$U_{BR(CEO)} = 32\text{V}$

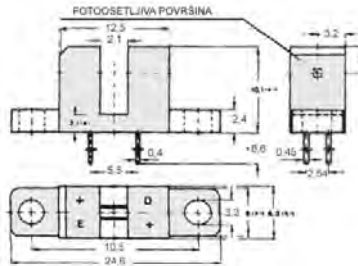
Kolektorska mračna struja ( $U_{CE}=10\text{V}$ ,  $I_F=0\text{V}$ ,  $E=0$ )

$U_{BR(ECO)} = 100\mu\text{A}$

Cena: 4,00



CNY36  
TCST1000  
LTH301-7



CNY37  
TCST2000  
LTH860-T55



### CNY70

#### Tehnički podaci

Predajnik

Napon direktne polarizacije ( $I_F=50\text{mA}$ )

$U_F = 1,25-1,6\text{V}$

Napon proboja ( $I_R=100\mu\text{A}$ )

$U_{(BR)} = 5\text{V}$

Prijemnik

Napon proboja CE spoja ( $I_C=1\text{mA}$ )

$U_{(BR)CEO} = 32\text{V}$

Napon proboja EC spoja ( $I_E=100\mu\text{A}$ )

$U_{(BR)ECO} = 5\text{V}$

Kolektorska struja ( $U_{CE}=20\text{V}$ ,  $I_F=0$ ,  $E=0$ )

$I_{CEO} = 10-200\text{ nA}$

Kapler

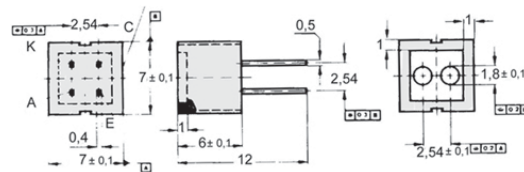
Kolektorska struja ( $I_F=20\text{mA}$ ,  $U_{CE}=5\text{V}$ )

$I_C = 0,3-0,5\text{ mA}$

Struja presluavanja ( $I_F=20\text{mA}$ ,  $U_{CE}=5\text{V}$ )

$I_{CX} = 200\text{ nA}$

Cena: 4,00



### TIL139

#### Tehnički podaci

Predajnik

Napon direktne polarizacije ( $I_F=50\text{mA}$ )

$U_F = 1,2\text{V}$

Napon proboja ( $I_R=100\mu\text{A}$ )

$U_{BR} = 5\text{V}$

Prijemnik

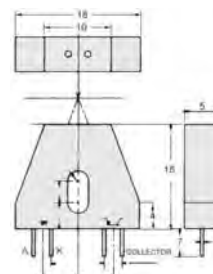
Napon proboja kolektorsko-emitorskog spoja ( $I_C=1\text{mA}$ )

$U_{BR(ECO)} = 50\text{V}$

Kolektorska mračna struja ( $U_{CE}=20\text{V}$ ,  $I_F=0$ ,  $E=0$ )

$I_{CEO} = 15\text{mA}$

Cena: 6,00





## OPTOELEMENTI

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### OPTOKAPLERI . . . . . OOK

#### 4N..

Tip	Cena	Izlazno kolo	Ctr %	$U_{IZO}$ (V)	$U_{CEO}$ (Vmax)	$U_{CEsat}$ (Vslow)	$I_C$ (mA)	$I_F$ (mA)	$t_{on}$ ( $\mu$ s)	$t_{of}$ ( $\mu$ s)	Case sl.
4N25	0,80	tranzistor	>20	2500	30	0,5	2	50	5	10	1
4N26	0,80	tranzistor	>20	1500	30	0,5	2	50	5	10	1
4N27	0,80	tranzistor	>10	1500	30	0,5	2	50	5	10	1
4N28	1,40	tranzistor	>10	500	30	0,5	2	50	5	10	1
4N29	1,60	darlington	100	2500	30	1	2	8	5	40	2
4N30	2,00	darlington	>100	1500	30	1	2	8	5	40	2
4N31	2,50	darlington	50	1500	30	1	2	8	5	40	2
4N32	1,60	darlington	500	7500	50	<1	2	8	5	100	2
4N33	0,90	darlington	<500	7500	50	<1	2	8	5	100	2
4N35	0,90	tranzistor	100	3350	30	<0,3	0,5	10	7	5	1
4N36	1,20	tranzistor	100	2500	30	<0,3	0,5	10	7	5	1
4N37	1,20	tranzistor	100	1500	30	<0,3	0,5	10	7	5	1
4N38	1,50	tranzistor	<20	1500	80	<1	4	20	5	5	1
4N45	2,80	darlington	<200	3000	<7	1	2,5	1	1500	60	13
4N46	8,00	darlington	<200	3000	5	1	1,7	0,5	1500	80	13

#### 6N...

Tip	Cena	Izlazno kolo	Ctr %	$U_{IZO}$ (V)	$U_{CEO}$ (Vmax)	$U_{CEsat}$ (Vslow)	$I_C$ (mA)	$I_F$ (mA)	$t_{on}$ ( $\mu$ s)	$t_{of}$ ( $\mu$ s)	Case sl.
6N135	2,20	tranzistor	16	2500	<15	0,4	-	16	0,4	0,3	3
6N136	2,20	tranzistor	35	2500	<15	0,4	-	16	0,3	0,3	3
6N137	2,20	logička kapija	>700	3000	< 7	$\pm$ 0,6	-	5	0,045	0,045	4
6N138	2,20	darlington	>300	6000	=<7	0,4	-	1,6	4	1	5
6N139	2,20	darlington	>500	6000	=<18	0,4	-	1,6	4	4	5

#### CNX...

Tip	Cena	Izlazno kolo	Ctr %	$U_{IZO}$ (V)	$U_{CEO}$ (Vmax)	$U_{CEsat}$ (Vslow)	$I_a$ (mA)	$I_F$ (mA)	$t_{on}$ ( $\mu$ s)	$t_{of}$ ( $\mu$ s)	Case sl.
CNX21	2,60	tranzistor	20	10000	30	<0,4	1	10	5	3	33
CNX36	2,00	tranzistor	63-125	5300	70	<0,3	2,5	10	5	5	1
CNX38	4,00	tranzistor	70-120	3120	80	<0,4	100	100	5	5	1
CNX62A	2,80	tranzistor	40	5300	50	<0,4	4	10	3	3	6
CNX82A	2,80	tranzistor	40	5300	50	<0,4	4	10	3	3	6
CNX83	2,60	tranzistor	40	5300	50	<0,4	4	10	3	3	1

$C_{tr}$  = strujni prenosni odnos,  $U_{IZO}$  = napon izolacije,  $U_{CEO}$  = napon kolektor-emitor,  $U_{CEsat}$  = napon kolektor - emitor u zasićenju,  $I_C$  = struja kolektora,  $I_F$  = propusna struja,  $t_{on}$  = vreme uključenja,  $t_{of}$  = vreme isključenja



## OPTOELEMENTI

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### OPTOKAPLERI . . . . . OOK CNY..

Tip	Cena	Izlazno kolo	Ctr %	$U_{IZO}$ (V)	$U_{CEO}$ (Vmax)	$U_{CEsat}$ (Vslow)	$I_C$ (mA)	$I_F$ (mA)	$t_{on}$ ( $\mu$ S)	$t_{of}$ ( $\mu$ S)	Case sl.
CNY17-1	0,80	tranzistor	40-80	5300	70	<0,3	2,5	10	5	5	1
CNY17-2	0,80	tranzistor	63-125	5300	70	<0,3	2,5	10	5	5	1
CNY17-3	0,80	tranzistor	100-200	5300	70	<0,3	2,5	10	5	5	1
CNY17-4	0,80	tranzistor	160-320	5300	70	<0,3	2,5	10	5	5	1
CNY21	14,00	tranzistor	60	10000	>32	<0,3	1	10	5	3	7
CNY64	4,00	tranzistor	50-300	8200	32	<0,3	1	10	5	3	8
CNY65	4,00	tranzistor	50-300	11600	32	<0,3	1	10	5	3	8
CNY66	6,00	tranzistor	50-300	15000	32	>0,3	1	10	5	3	9
CNY71	4,00	tranzistor	20	5300	32	>0,3	1	10	11	7	11
CNY74-4	5,00	tranzistor	50-600	2500	>70	>0,3	1	10	6	5	27
CNY75	1,00	tranzistor	160-320	5300	>90	<0,3	1	10	7	5	1

### HCPL..

Tip	Cena	Izlazno kolo	Ctr %	$U_{IZO}$ (V)	$U_{CEO}$ (Vmax)	$U_{CEsat}$ (Vslow)	$I_C$ (mA)	$I_F$ (mA)	$t_{on}$ ( $\mu$ S)	$t_{of}$ ( $\mu$ S)	Case sl.
HCPL261N	6,00	logička kapija	10	2500	5	< 0,5	50	60	10	10	50
HCPL263N	14,00	dual / ttl	10	2500	5	< 0,5	50	60	10	10	45
HCPL2231	20,00	dual / ttl	5	2500	5	< 0,5	50	60	10	10	44
HCPL2232	22,00	dual / ttl	5	2500	5	< 0,5	50	60	10	10	44
HCPL2300	13,00	logička kapija	5	2500	5	< 0,5	50	60	10	10	47
HCPL2531	5,00	dual tranzistor	15	2500	15	< 0,5	50	60	10	10	49
HCPL2601	2,50	logička kapija	10	2500	5	< 0,5	50	60	10	10	50
HCPL2611	7,00	logička kapija	10	2500	5	< 0,5	50	60	10	10	50
HCPL2630	6,00	dual / ttl	10	2500	5	< 0,5	50	60	10	10	45
HCPL2631	6,50	dual / ttl	10	2500	5	< 0,5	50	60	10	10	45
HCPL2731	5,00	split darlington	>300	2500	7	< 0,5	50	60	10	10	32
HCPL4100	18,00	predajnik	20mA								52
HCPL4200	18,00	prijemnik	20mA								53
HCPL7710	18,00	dual tranzistor	12	3750	5	< 0,5	50	60	10	10	46
HCPL250L	4,50	tranzistor	1	2500	3,3	< 0,5	50	60	10	10	48
HCPL253L	10,00	dual tranzistor	1	2500	3,3	< 0,5	50	60	10	10	49
HCPL260L	6,00	logička kapija	15	2500	3,3	< 0,5	50	60	10	10	50
HCPL263L	13,00	dual / ttl	15	2500	3,3	< 0,5	50	60	10	10	45
HCPL270L	4,00	darlington		2500	3,3	< 0,5	50	60	10	10	51
HCPL273L	11,00	split darlington		2500	3,3	< 0,5	50	60	10	10	32

$C_{tr}$  = strujni prenosni odnos,  $U_{IZO}$  = napon izolacije,  $U_{CEO}$  = napon kolektor-emitor,  $U_{CEsat}$  = napon kolektor - emitor u zasićenju,  $I_C$  = struja kolektora,  $I_F$  = propusna struja,  $t_{on}$  = vreme uključenja,  $t_{of}$  = vreme isključenja



# OPTOELEMENTI

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## OPTOKAPLERI . . . . . OOK

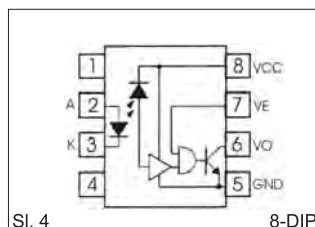
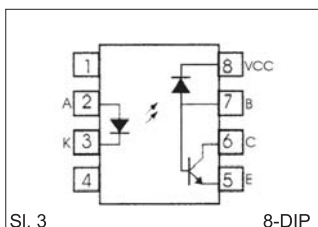
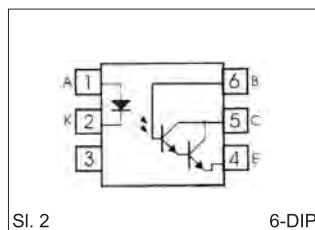
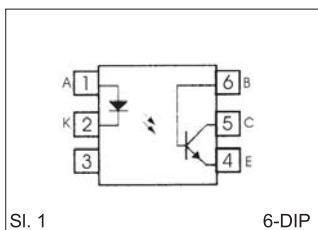
IL..

Tip	Cena	Izlazno kolo	Ctr %	$U_{IZO}$ (V)	$U_{CEO}$ (Vmax)	$U_{CEsat}$ (Vslow)	$I_C$ (mA)	$I_F$ (mA)	$t_{on}$ ( $\mu$ S)	$t_{of}$ ( $\mu$ S)	Case sl.
ILD74	4,00	dual tranzistor	<12,5	7500	20	<0,5	2	16	6	25	22
ILQ1	8,00	kvadr. tranzistor	>20	5300	50	<0,4	50	60	1,9	1,44	26

MOC....

Tip	Cena	Izlazno kolo	Ctr %	$U_{IZO}$ (V)	$U_{CEO}$ (Vmax)	$U_{CEsat}$ (Vslow)	$I_C$ (mA)	$I_F$ (mA)	$t_{on}$ ( $\mu$ S)	$t_{of}$ ( $\mu$ S)	Case sl.
MOC3010	2,00	trijak		7500	250	3	100	15			12
MOC3020	1,50	trijak		7500	400	3	100	30			12
MOC3021	1,50	trijak		7500	400	3	100	15			12
MOC3023	2,50	trijak		7500	400	3	100	5			12
MOC3041	3,00	trijak		7500	400	6	100	15			14
MOC3042	3,00	trijak		7500	400	6	100	10			14
MOC3043	3,00	trijak		7500	400	6	100	5			14
MOC3061	3,00	trijak		7500	600	6	100	15			14
MOC3062	3,00	trijak		7500	600	6	100	10			14
MOC3063	3,00	trijak		7500	600	6	100	5			14
MOC3083	5,00	trijak		7500	800	6	100	5			14
MOC8101	4,00	tranzistor	50-80	7500	30	<0,4	150	60	7,5	5,7	6
MOC8102	3,00	tranzistor	73-117	7500	45	<0,4	150	60	7,5	5,7	6
MOC8103	5,00	tranzistor	108-183	7500	45	<0,4	150	60	7,5	5,7	6

$C_{tr}$  = strujni prenosni odnos,  $U_{IZO}$  = napon izolacije,  $U_{CEO}$  = napon kolektor-emitor,  $U_{CEsat}$  = napon kolektor - emitor u zasićenju,  $I_C$  = struja kolektora,  $I_F$  = propusna struja,  $t_{on}$  = vreme uključenja,  $t_{of}$  = vreme isključenja





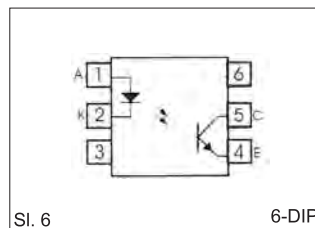
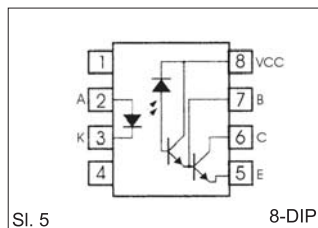
# OPTOELEMENTI

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## OPTOKAPLERI . . . . . OOK PC...

Tip	Cena	Izlazno kolo	Ctr %	$U_{IZO}$ (V)	$U_{CEO}$ (Vmax)	$U_{CEsat}$ (Vslow)	$I_C$ (mA)	$I_F$ (mA)	$t_{on}$ ( $\mu$ S)	$t_{of}$ ( $\mu$ S)	Case sl.
PC111	4,00	tranzistor	>50	5000	35	<0,2	50	5	4	4	6
PC120	3,20	tranzistor	40-400	5000	35	<0,2	50	50	4	3	10
PC121	5,00	tranzistor	50-400	5000	70	<0,2	50	50	4	3	10
PC123	1,20	tranzistor	50	5000	70	<0,2	50	50	4	3	10
PC702VC	2,80	tranzistor	40	5000	70						1
PC714V	2,80	tranzistor	50	5000	35						6
PC715V	3,50	tranzistor	>600	5000	35		80	1			16
PC716V	3,00	tranzistor	>1000	5000	35		200	1			16
PC723V	2,80	tranzistor	50-400	5000	80		50	5			1
PC724V	2,50	tranzistor	20-80	5000	35		80	100			6
PC725V	4,00	tranzistor	>1000	5000	300		150	1			17
PC814	2,00	tranzistor	20-300	5000	35			$\pm 1$			18
PC815	2,00	tranzistor	<600	5000	35		80	1			19
PC816	2,20	tranzistor	50-600	5000	70	<0,4	50	5	4	4	10
PC817	1,60	tranzistor	50-600	5000	35	<0,2	50	5	4	3	10
PC824	4,00	2xPC814	20-300	5000	35		50	$\pm 1$			20
PC825	4,00	2xPC815	>600	5000	35		80	1			21
PC826	4,00	2xPC816	50-600	5000	70		50	5			15
PC827	3,20	2xPC817	50-600	5000	35	0,2	50	5	4	3	15
PC829	3,20	2xPC817	50-400	5000	35		50	5			22
PC837	5,00	3xPC817	50-600	5000	35		50	5			23
PC844	6,00	4xPC814	20-300	5000	35		50	$\pm 1$			24
PC845	6,00	4xPC815	>600	5000	35		80	1			25
PC846	6,00	4xPC816	50-600	5000	70		50	5			26
PC847	4,50	4xPC817	50-600	5000	35		50	5			26
PC849	6,50	tranzistor	50-400	5000	35		50	5	4	4	27
PC900V	4,50	log.kolo/tranz.	-	5000	16						28
PC910X	8,00	logičko kolo	-	5000	4,5-5,5						29

$C_{tr}$  = strujni prenosni odnos,  $U_{IZO}$  = napon izolacije,  $U_{CEO}$  = napon kolektor-emitor,  $U_{CEsat}$  = napon kolektor - emitor u zasićenju,  $I_C$  = struja kolektora,  $I_F$  = propusna struja,  $t_{on}$  = vreme uključanja,  $t_{of}$  = vreme isključenja





## OPTOELEMENTI

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### OPTOKAPLERI . . . . . OOK

#### TCDT....

Tip	Cena	Izlazno kolo	Ctr %	$U_{IZO}$ (V)	$U_{CEO}$ (Vmax)	$U_{CEsat}$ (Vslow)	$I_C$ (mA)	$I_F$ (mA)	$t_{on}$ ( $\mu$ s)	$t_{of}$ ( $\mu$ s)	Case sl.
TCDT1101G	3,00	tranzistor	90	5300	>32	<0,3	1	10	11	7	6
TCDT1102G	3,00	tranzistor	63	1600	32	<0,3	1	10	11	7	6

#### TIL...

Tip	Cena	Izlazno kolo	Ctr %	$U_{IZO}$ (V)	$U_{CEO}$ (Vmax)	$U_{CEsat}$ (Vslow)	$I_C$ (mA)	$I_F$ (mA)	$t_{on}$ ( $\mu$ s)	$t_{of}$ ( $\mu$ s)	Case sl.
TIL111	2,00	tranzistor	>2,5	1500	30	0,4	2	16	5	5	1
TIL112	2,00	tranzistor	>2	1500	20	0,5	2	50	2	2	1
TIL113	3,00	tranzistor	>300	1500	30	<1	125	50	300	300	2
TIL117	2,00	tranzistor	>50	1500	30	0,5	2	50	2	2	1
TIL127	6,00	tranzistor	>300	5000	30	<1,2	125	50	300	300	2

#### TLP...

Tip	Cena	Izlazno kolo	Ctr %	$U_{IZO}$ (V)	$U_{CEO}$ (Vmax)	$U_{CEsat}$ (Vslow)	$I_C$ (mA)	$I_F$ (mA)	$t_{on}$ ( $\mu$ s)	$t_{of}$ ( $\mu$ s)	Case sl.
TLP250	12,00	opto mosfet		2500	35		500	5			38
TLP504A	3,00	tranzistor	50-600	2500	55	<0,4	50	60	3	3	22
TLP532	2,50	tranzistor	50	2500	55	<0,4	50	60	3	3	6
TLP541G	4,00	tiristor	7	2500	400						34
TLP550	4,00	tranzistor	10	2500	55						35
TLP581Q	7,00	tranzistor	>25	5000	35	<0,4	50	50	5	5	36
TLP620	3,00	tranzistor	50-100	5000	55						18
TLP621	2,00	tranzistor	>50	5000	55	<0,4	2,4	8	3	3	10
TLP632	2,80	tranzistor	50-100	5000	55	<0,4	50	60	3	3	6
TLP633	3,00	tranzistor	50-100	4000	55	<0,4	50	60	3	3	1
TLP634	4,00	tranzistor	50	4000	55	<0,4	50	60	3	3	1
TLP651	6,00	tranzistor	50	2500	15	<0,4	50	60	3	3	3
TLP721	2,50	tranzistor	50-600		55	<0,4	50	60	3	3	10
TLP731	4,00	tranzistor	50-600	4000	55	<0,4	50	60	3	3	6
TLP732	6,00	tranzistor	50	4000	55	<0,4	50	60	3	3	6
TLP741G	6,00	tiristor	10	4000	600						34
TLP2200	7,00	logički bafer	-	2500	20						37

$C_{tr}$  = strujni prenosni odnos,  $U_{IZO}$  = napon izolacije,  $U_{CEO}$  = napon kolektor-emitor,  $U_{CEsat}$  = napon kolektor - emitor u zasićenju,  $I_C$  = struja kolektora,  $I_F$  = propusna struja,  $t_{on}$  = vreme uključenja,  $t_{of}$  = vreme isključenja



## OPTOELEMENTI

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OPTPKAPLERI . . . . . OOK

SMD OPTOKAPLERI . . . . . OOKSMD

PC...

Tip	Cena	Izlazno kolo	Ctr %	$U_{IZO}$ (V)	$U_{CEO}$ (Vmax)	$U_{CEsat}$ (Vslow)	$I_C$ (mA)	$I_F$ (mA)	$t_{on}$ ( $\mu$ S)	$t_{of}$ ( $\mu$ S)	Case sl.
PC352	1,60	opto mosfet	> 1000	3750	300	< 0,4	150	1	3	3	38
PC354	1,60	tranzistor	> 20	3750	35	< 0,4	50	1	3	3	22
PC355	1,60	tranzistor	> 600	3750	35	< 0,4	50	1	3	3	6
PC356	0,80	tiristor	> 100	3750	35	< 0,4	50	5	5	5	34
PC357	0,80	tranzistor	> 80	3750	120	< 0,4	50	5	5	5	35
PC358	1,00	tranzistor	> 80	3750	120	< 0,4	50	5	5	5	36
PC817	0,80	tranzistor	> 50	500	35	< 0,4	50	5	5	5	18

TLP...

Tip	Cena	Izlazno kolo	Ctr %	$U_i$ (V)	$U_{CE}$ (Vmax)	$U_{CEsat}$ (Vslow)	$I_C$ (mA)	$I_F$ (mA)	$t_{of}$ ( $\mu$ S)	Case sl.
TLP112	4,00	logička kapija	10	2500		< 0,5	50	16	10Mod	39
TLP127	3,50	dual / ttl	10	2500	300	< 0,5	50	1	10Mod	41

HCPL...

Tip	Cena	Izlazno kolo	Ctr %	$U_i$ (V)	$U_{CE}$ (Vmax)	$U_{CEsat}$ (Vslow)	$I_C$ (mA)	$I_F$ (mA)	$t_{of}$ ( $\mu$ S)	Case sl.
HCPL061A	6,00	logicko kolo	5	2500	5	< 0,5	50	5	10	29
HCPL061N	6,00	logicko kolo	5	2500	5	< 0,5	50	5	10	29
HCPL063A	14,00	dual / ttl	5	2500	5	< 0,5	50	5	10	45
HCPL063N	15,00	dual / ttl	15	2500	5	< 0,5	50	5	10	45
HCPL0201	8,00	logičko kolo	5	2500	5	< 0,5	50	5	10	42
HCPL0600	5,00	logičko kolo	10	2500	5	< 0,5	50	5	10	50
HCPL0601	6,00	logicko kolo	10	2500	5	< 0,5	50	5	10	50
HCPL0611	7,00	logicko kolo	10	2500	5	< 0,5	50	5	10	50
HCPL0630	12,00	dual / ttl	10	2500	5	< 0,5	50	5	10	45
HCPL0631	13,00	dual / ttl	10	2500	5	< 0,5	50	5	10	45
HCPL0708	12,00	opto mosfet	15	2500	5	< 0,5	50	5	10	38
HCPL0710	16,00	dual tranzistor	12	2500	5	< 0,5	50	5	10	46
HCPL0730	11,00	split darlington	>300	2500	5	< 0,5	50	5	10	32
HCPL0738	26,00	dual / ttl	15	2500	5	< 0,5	50	5	10	43
HCPL050L	5,00	tranzistor	1	2500	3,3	< 0,5	50	5	10	48
HCPL053L	12,00	dual tranzistor	1	2500	3,3	< 0,5	50	5	10	49
HCPL060L	7,00	logicka kapija	15	2500	3,3	< 0,5	50	5	10	50
HCPL063L	14,00	dual / ttl	15	2500	3,3	< 0,5	50	5	10	45
HCPL070L	6,00	darlington	10	2500	3,3	< 0,5	50	5	10	51
HCPL073L	13,00	split darlington	10	2500	3,3	< 0,5	50	5	10	32

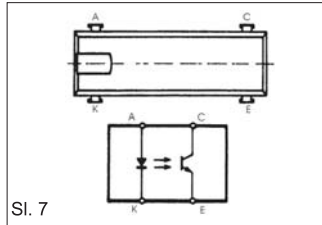
$C_{tr}$  = strujni prenosni odnos,  $U_{IZO}$  = napon izolacije,  $U_{CEO}$  = napon kolektor-emitor,  $U_{CEsat}$  = napon kolektor - emitor u zasićenju,  $I_C$  = struja kolektora,  $I_F$  = propusna struja,  $t_{on}$  = vreme uključenja,  $t_{of}$  = vreme isključenja



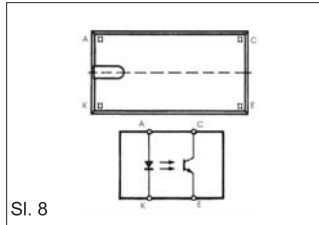
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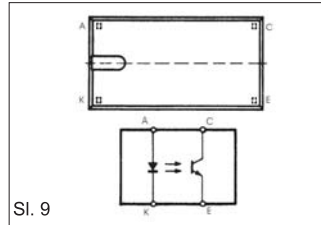
## OPTOKAPLERI . . . . . OOK



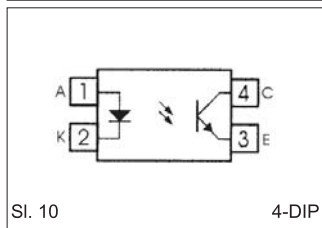
SI. 7



SI. 8

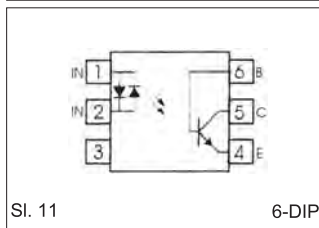


SI. 9



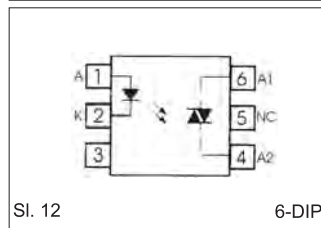
SI. 10

4-DIP



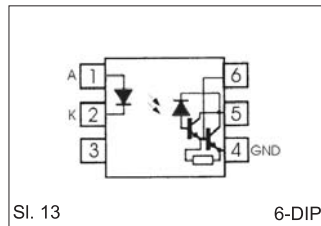
SI. 11

6-DIP



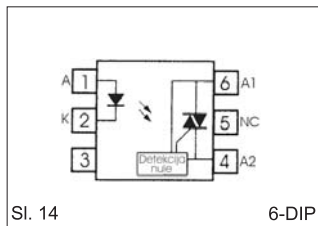
SI. 12

6-DIP



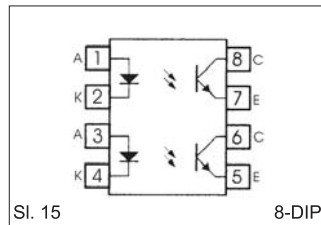
SI. 13

6-DIP



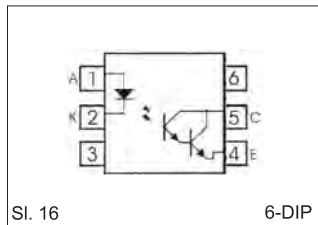
SI. 14

6-DIP



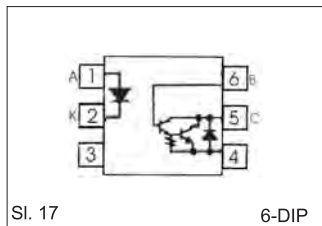
SI. 15

8-DIP



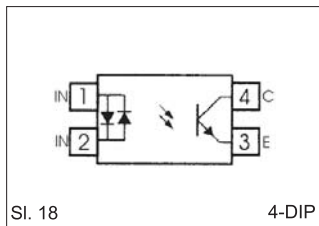
SI. 16

6-DIP



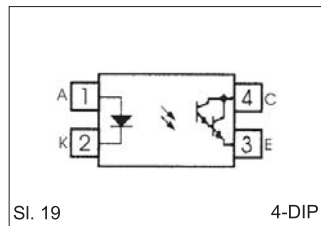
SI. 17

6-DIP



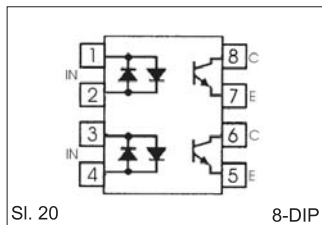
SI. 18

4-DIP



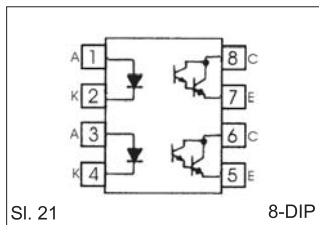
SI. 19

4-DIP



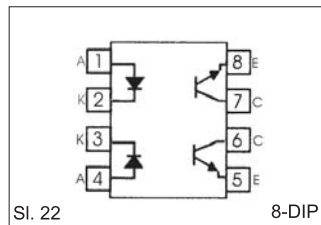
SI. 20

8-DIP



SI. 21

8-DIP



SI. 22

8-DIP

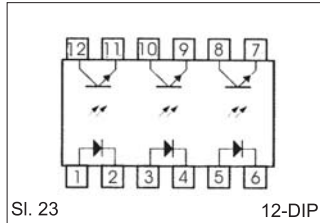




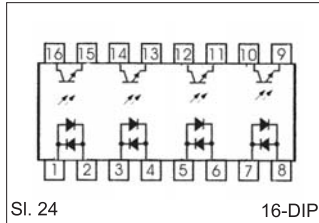
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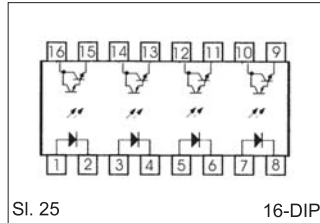
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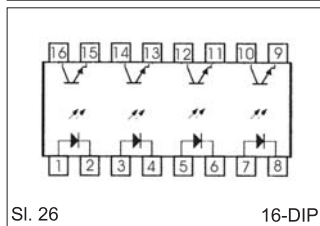
SI. 23 12-DIP



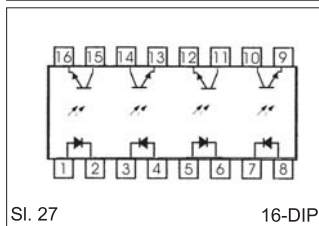
SI. 24 16-DIP



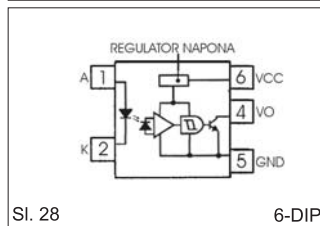
SI. 25 16-DIP



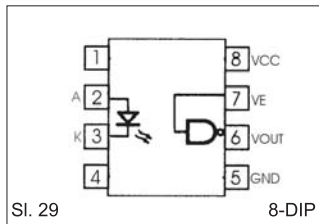
SI. 26 16-DIP



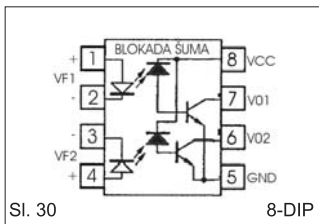
SI. 27 16-DIP



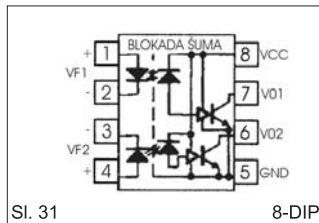
SI. 28 6-DIP



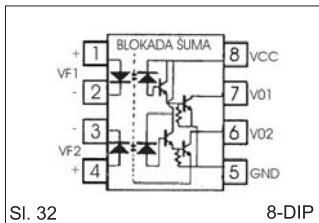
SI. 29 8-DIP



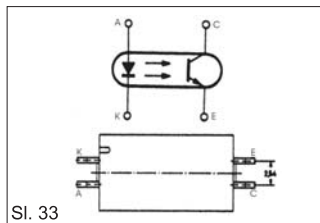
SI. 30 8-DIP



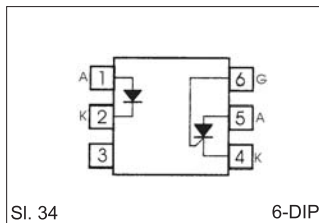
SI. 31 8-DIP



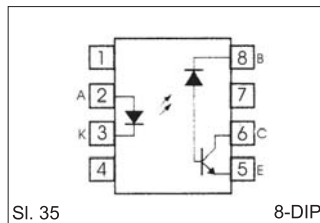
SI. 32 8-DIP



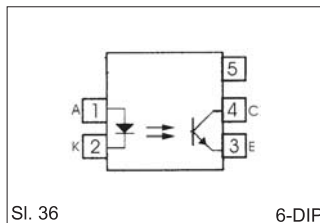
SI. 33 6-DIP



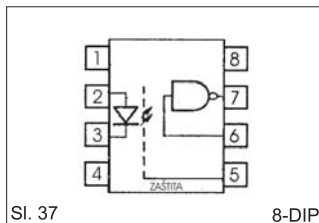
SI. 34 6-DIP



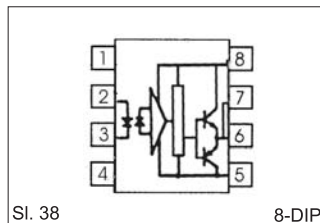
SI. 35 8-DIP



SI. 36 6-DIP



SI. 37 8-DIP



SI. 38 8-DIP

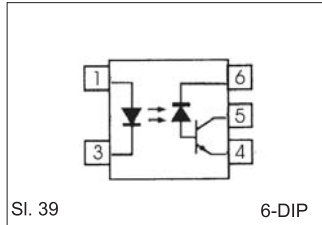




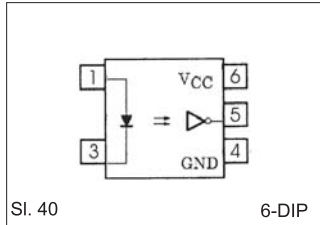
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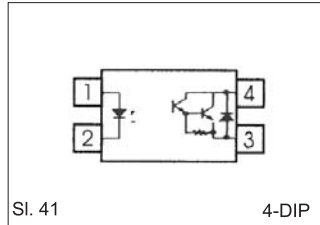
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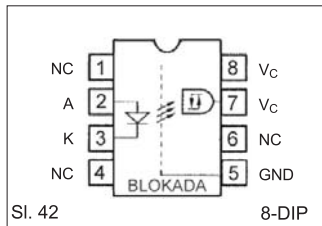
SI. 39 6-DIP



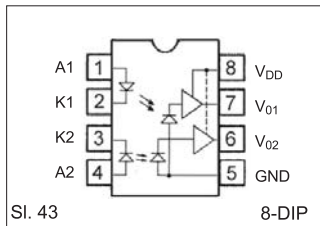
SI. 40 6-DIP



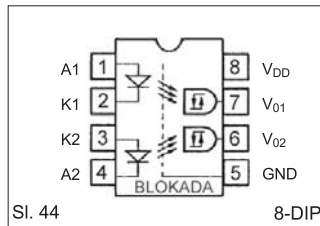
SI. 41 4-DIP



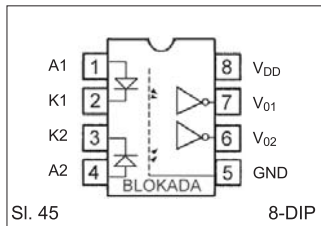
SI. 42 8-DIP



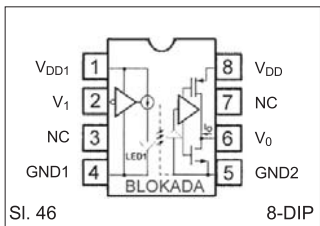
SI. 43 8-DIP



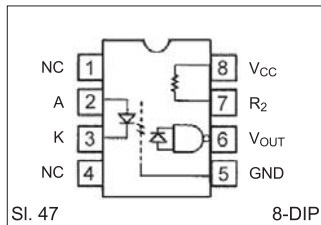
SI. 44 8-DIP



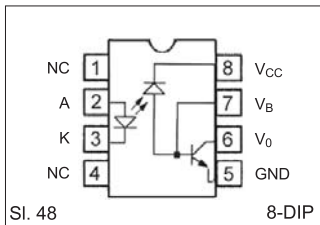
SI. 45 8-DIP



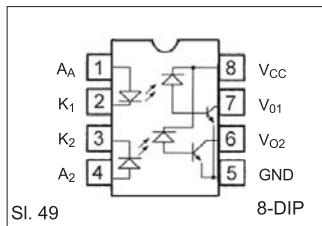
SI. 46 8-DIP



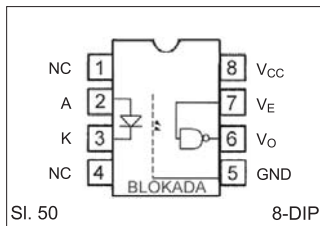
SI. 47 8-DIP



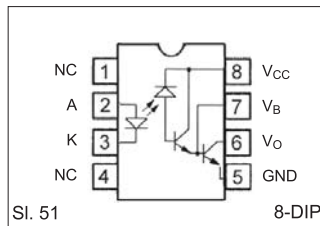
SI. 48 8-DIP



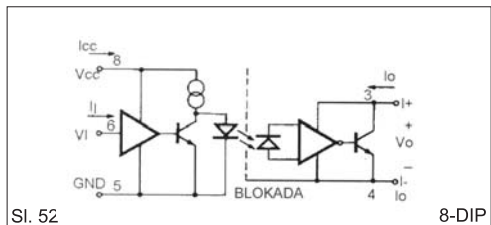
SI. 49 8-DIP



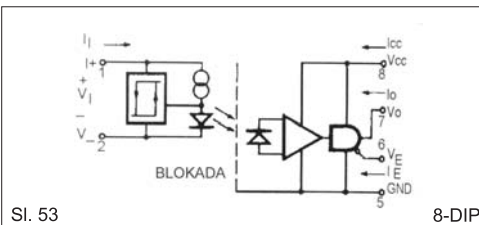
SI. 50 8-DIP



SI. 51 8-DIP



SI. 52 8-DIP



SI. 53 8-DIP



## OPTOELEMENTI

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### PREGLED ZAMENA

#### IR, FOTO DIODE I FOTO TRANZISTORI

BP103	→ BP103B, BPW40	CQW14	→ LD271, CQY99	MRD450	→ BP103B
BP103B	↔ BPW40	CQY36	→ CQY37	MRD3051	→ BPY62-3
BP104	↔ BPW34	CQY98	→ CQY99	OP565	→ LTR4206
BPW14	→ BPX43-3, BPY62-3	CQY99	↔ LD271	OP598	→ LTR3208
BPW17N	→ BPX81-2, BPX81-3	LD261	→ CQY37	SFH205	→ BPW41, LTR516
BPW34	↔ BP104	LD271	↔ CQY99	SFH206	→ BPW41, LTR536
BPW40	↔ BP103B	LPT80A	→ LTR301	TIL38	→ LD271, CQY99
BPW42	→ SFH309	LTE2871	→ LD274	TIL41	→ CQY37
BPW50	→ BPW41N	LTE4208	→ LD271	TIL49	→ CQY37
BPX25	→ BPX43-3	LTE5208AC	↔ CQY99	TIL78	→ SFH309
BPX43	↔ BPX43-3	LTR536	↔ BPW41N	TIL81	→ BPY62-3
BPX43-3	→ BPW77NB	LTR3208	→ BP103B	TIL99	→ BPX43-3
BPX70	→ BP103B	MLED900	→ LD271	TIL100	→ BPW41N
BPX71	→ BPY62-3	MRD150	→ BP103B	TIL621	→ BPX81-2
BPX72	→ BPY62-3	MRD300	→ BPX43-3	TLP615	→ LTR4206
BPX95	→ BPW40, BP103B	MRD310	→ BPX43-3	V290P	→ LD271
BWP41	→ LTR536	MRD370	→ BPX43-3	V390P	→ LD271
BWP82	→ LTR536				
CQW13	→ LD271				

#### OPTOKAPLERI

4N29	↔ TIL113	FCD800	→ PC829	H11A5	→ 4N26
4N32	↔ PC715V	FCD810A	→ 4N27	H11B1	↔ 4N26
4N34	→ TIL113	FCD810C	→ 4N27	H11B2	↔ 4N32
4N35	↔ CNY17	FCD820A	→ 4N26	H11B3	↔ 4N32
4N36	↔ CNY17	FCD820B	→ 4N25	H11A5100	→ 4N35
4N37	↔ 4N36	FCD825A	→ 4N35	H11AA1	↔ CNY71
CLI5	→ H11A2	FCD825B	→ 4N36	H11B1	↔ 4N32
CNX35	→ CNY17-1	FCD830A	→ 4N26	H11B3	↔ 4N32
CNX36	→ CNY17-2	FCD830B	→ 4N25	H11C1	→ TLP541G
CNX38	→ CNY17-3	FCD831	→ 4N25	H11C2	→ TLP541G
CNY17-1	↔ CNY17-3	FCD831A	→ 4N27	H11C3	→ TLP541G
CNY17-2	↔ CNY17-3	FCD831B	→ 4N25	H11C4	→ TLP541G
CNY35	→ CNY17-2	FCD836	→ 4N25	H11C5	→ TLP541G
CNY47	→ 4N25	FCD850C	→ 4N29	H11C6	→ TLP541G
CNY57A	→ CNY17-2	FCD850D	→ 4N29	H74C1	→ TLP541G
CNY65	→ CNY66	FCD855C	→ 4N29	H74C2	→ TLP541G
CNY71	↔ H11AA1	FCD860C	→ 4N32	IL1	→ 4N25
CNY74-2	→ ILD74	FCD865	→ 4N33	IL5	→ 4N25
CNY75A	→ CNY17-2	FCD880	→ CNY74-4	IL9	→ TLP581Q
CNY75B	→ CNY17-3	FCD885	→ CNY74-4	IL12	→ 4N27
CNY75C	→ CNY17-4	H11A1	↔ 4N25	IL15	→ 4N27
CNY80	→ CNY17-1	H11A2	↔ 4N26	IL16	→ 4N27
		H11A3	↔ 4N25	IL30	→ H11B3
		H11A4	↔ 4N27	IL74	→ 4N26



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#### OPTOKAPLERI

IL100	→	6N137	LTK844	→	PC844	MCP3009	→	MOC3010
IL101	→	6N137	LTK845	→	PC845	MCP3010	→	MOC3010
IL201	→	CNY75	LTK4N25	→	4N25	MCP3011	→	MOC3021
IL250	→	CNY71	LTK4N26	→	4N26	MCP3020	→	MOC3020
IL251	→	H11AA1	LTK4N27	→	4N27	MCP3021	→	MOC3021
ILA30	→	4N33	LTK4N28	→	4N28	MCP3023	→	MOC3023
ILA55	→	4N33	LTK4N32	→	4N32	MCP3030	→	MOC3041
IL-CT6	→	ILD74	LTK4N33	→	4N33	MCP3031	→	MOC3041
ILD1	→	PC829	LTK4N35	→	4N35	MCP3032	→	MOC3042
ILD74	↔	PC829	LTK4N36	→	4N36	MCP3033	→	MOC3043
ILQ1	↔	TLP504A	LTK4N37	→	4N37	MCP3040	→	MOC3041
ILQ74	→	PC849	LTK6N135	→	6N135	MCP3041	→	MOC3041
IS1	→	4N25	LTK6N136	→	6N136	MCP3042	→	MOC3042
IS5	→	4N25	LTK6N137	→	6N137	MCP3043	→	MOC3043
IS74	→	4N26	LTV725V	→	PC725V	MCS2	→	TLP541G
IS201	→	CNY75	LTV814	→	PC814	MCS21	→	TLP541G
IS604	→	CNY71	LTV815	→	PC815	MCS2400	→	TLP541G
ISD1	→	PC829	LTV816	→	PC816	MCS2401	→	TLP541G
ISD74	→	ILD74	LTV817	→	PC817	MCT2	→	4N25
ISQ1	→	ILQ1	LTV824	→	PC824	MCT2E	→	4N25
ISQ74	→	PC849	LTV825	→	PC825	MCT3	→	4N26
K827	→	PC827	LTV826	→	PC826	MCT6	→	PC829
K847	→	PC847	LTV827	→	PC827	MCT26	→	4N27
K3010P	→	MOC3010	LTV829	→	PC829	MCT66	→	TLP504A
K3020P	→	MOC3020	LTV844	→	PC844	MCT210	→	CNY17-3
K3021P	→	MOC3021	LTV845	→	PC845	MCT271	→	CNY17-1
K8013P	→	PC900V	LTV846	→	PC846	MCT272	→	CNY17-2
LTK702V	→	H11A2	LTV847	→	PC847	MCT274	→	CNY17-4
LTK702VA	→	CNY17-1	LTV849	→	PC849	MCT275	→	PC723V
LTK702VB	→	CNY17-2	LTV4N25	→	4N25	MCT276	→	CNY17-1
LTK702VC	→	CNY17-3	LTV4726	→	4N26	MCT277	→	4N36
LTK702VD	→	CNY17-4	LTV4727	→	4N27	MCT1000	→	4N26
LTK703VA	→	CNY17-1	LTV4728	→	4N28	MCT2022	→	CNY17-1
LTK703VB	→	CNY17-2	LTV4N32	→	4N32	MCT2200	→	H11A-1
LTK703VC	→	CNY17-3	LTV4N33	→	4N33	MCT2201	→	CNY17-3
LTK705VD	→	CNY17-4	LTV4N35	→	4N35	MCT2202	→	CNY17-3
LTK713V	→	H11A1	LTV4N36	→	4N36	MCT5200	→	CNY17-3
LTK725V	→	PC725V	LTV4N37	→	4N37	MCT5201	→	CNY17-3
LTK814	→	PC814	LTV6N135	→	6N135	MOC601	→	4N26
LTK815	→	PC815	LTV6N136	→	6N136	MOC602A	→	4N25
LTK824	→	PC824	LTV6N137	→	6N136	MOC603A	→	4N25
LTK825	→	PC825	MC2230	→	H11B3	MOC604A	→	4N35
LTK829	→	PC829	MC2231	→	4N32	MOC622A	→	4N29
			MCA230	→	TIL113	MOC624A	→	4N32
			MCA231	→	4N32	MOC626A	→	4N29
						MOC633A	→	MOC3020



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#### OPTOKAPLERI

MOC1005	→	CNY17-1	OPI3250	→	4N32	PS2022	→	4N32
MOC1006	→	H11A1	OPI3251	→	4N33	PS2401-1	→	PC817
MOC3002	→	TLP541G	OPI3253	→	4N32	PS2401-2	→	PC827
MOC3003	→	TLP541G	PC4N25	→	4N25	PS2401-4	→	PC847
MOC3007	→	TLP541G	PC4N26	→	4N26	PS2501-1	→	PC817
MOC3009	→	MOC3010	PC4N27	→	4N27	PS2501-2	→	PC827
MOC3011	→	MOC3021	PC4N28	→	4N28	PS2501-4	→	PC847
MOC3030	→	MOC3041	PC4N29	→	4N29	PS2505-1	→	PC814
MOC3031	→	MOC3041	PC4N30	→	4N30	PS2505-2	→	PC824
MOC3032	→	MOC3042	PC4N32	→	4N32	PS2505-4	→	PC844
MOC3033	→	MOC3043	PC4N33	→	4N33	S21MD3	→	MOC3021
MOC3040	→	MOC3041	PC4N35	→	4N35	S21MD4	→	MOC3041
MOC8100	→	CNY75	PC4N36	→	4N36	SFH600-1	→	CNY17-1
MOC8113	→	4N35	PC4N37	→	4N37	SFH600-2	→	CNY17-2
OPI2100	→	CNY17-4	PC100	→	TLP581Q	SFH600-3	→	CNY17-3
OPI2150	→	H11A4	PC101	→	CNY21	SFH600-4	→	CNY17-4
OPI2151	→	4N27	PC515	→	TIL113	SFH601-1	→	H11A1
OPI2152	→	4N26	PC603	→	4N26	SFH601-2	→	CNY17-3
OPI2153	→	CNY17-1	PC613	→	TIL111	SFH601-3	→	CNY17-3
OPI2154	→	4N27	PC627	→	PC827	SFH601-4	→	CNY17-4
OPI2155	→	4N26	PC702V	→	PC702VC	SFH610	→	PC817
OPI2250	→	4N25	PC702VA	→	PC702VC	SFK610	→	PC817
OPI2251	→	4N25	PC702VB	→	PC702VC	SPX2	→	4N35
OPI2252	→	4N25	PC702VD	→	CNY17-4	SPX2E	→	4N35
OPI2253	→	CNY17-1	PC703V	→	CNY17-3	SPX6	→	4N35
OPI2254	→	4N26	PC703VA	→	CNY17-3	SPX26	→	4N27
OPI2255	→	4N25	PC703VB	→	CNY17-3	SPX28	→	4N27
OPI2500	→	CNY71	PC703VC	→	CNY17-3	SPX33	→	CNY17-1
OPI2501	→	H11AA1	PC703VD	→	CNY17-3	SPX35	→	CNY35
OPI3009	→	MOC3010	PC713	→	CNY17-2	SPX53	→	CNY17-1
OPI3010	→	MOC3010	PC713V	→	CNY17-3	SPX103	→	CNY17-3
OPI3011	→	MOC3021	PC714V	↔	TLP532	SPX600-1	→	CNY17-3
OPI3020	→	MOC3020	PC733	→	CNY71	SPX600-2	→	CNY17-3
OPI3021	→	MOC3021	PC733H	→	H11AA1	SPX7110	→	H11A1
OPI3022	→	MOC3042	PC825	↔	H11B3	SPX7130	→	CNY17-3
OPI3023	→	MOC3023	PC829	↔	ILD74	SPX7150	→	CNY17-3
OPI3030	→	MOC3041	PC849	↔	ILQ1	SPX7270	→	H11A1
OPI3031	→	MOC3041	PC910	→	PC910X	SPX7271	→	H11A1
OPI3032	→	MOC3042	PC910X	↔	6N137	SPX7272	→	CNY17-3
OPI3033	→	MOC3043	PC917	→	TLP550	SPX7273	→	SNY17-3
OPI3040	→	MOC3041	PC918	→	6N136	SPX7530	→	H11A1
OPI3041	→	MOC3041	PS2006B	→	6N135	SPX7550	→	CNY17-3
OPI3042	→	MOC3042	PS2006B1	→	6N136	SPX7590	→	CNY17-3
OPI3043	→	MOC3043	PS2007B	→	6N137	SPX7911	→	PC900V
OPI3150	→	4N33	PS2010	→	4N25	SU25	→	4N25
OPI3151	→	TIL113	PS2012	→	4N32			
OPI3153	→	4N33	PS2021	→	4N25			





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#### OPTOKAPLERI

TCP3030	→	MOC3030	TLP504A-2	→	ILQ1
TIL111	↔	4N26	TLP520-2	→	PC824
TIL112	↔	4N27	TLP520-4	→	PC844
TIL113	↔	4N30	TLP520GB	→	PC814
TIL114	→	4N25	TLP521-1	→	PC817
TIL115	→	4N26	TLP521-2	→	PC827
TIL116	→	4N25	TLP521-4	→	PC847
TIL117	→	H11A1	TLP530	→	H11A1
TIL118	→	4N27	TLP531	→	4N25
TIL119	→	4N33	TLP531GB	→	4N36
TIL124	→	CNY17-3	TLP531GR	→	4N36
TIL125	→	CNY17-3	TLP531Y	→	CNY75
TIL126	→	CNY17-3	TLP531YG	→	4N25
TIL127	↔	CNY17-4	TLP532	↔	PC714V
TIL153	→	CNY17-1	TLP621	→	PC817
TIL154	→	CNY17-1	TLP621-2	→	PC827
TIL155	→	CNY17-2	TLP621-4	→	PC847
TIL156	→	PC725V	TLP631	→	CNY17-3
TIL157	→	PC715V	TLP631GB	→	CNY17-3
ILP504A	↔	PC829	TLP731	↔	CNY17-2
			TLP731GB	→	CNY17-3
			TLP733	→	TLP731

