

Kingbright

IR - Infrared - Sensors - Phototransistors



INFRARED

Part Number	Lens Type	λP (nm)	Test Condition	Po(mW/sr)		Viewing Angle	Dimensions
				Min.	Typ.		
AA4040SF4BT-P22	Blue Transparent	880	100mA	8	16	90°	
AM2520F3C03-P22	Water Clear	940	20mA *50mA	3 / *8	8 / *16	20°	
AP2012SF4C-P22	Water Clear	880	20mA	0.8	1.5	160°	
APA1606SF4C-P22	Water Clear	880	20mA	0.8	1.5	110°	
APA3010SF4C-P22	Water Clear	880	20mA	0.8	1.5	160°	
APPA3010SF4C-P22	Water Clear	880	20mA	1	2.5	30°	
APT1608F3C-P22	Water Clear	940	20mA	0.8	2	150°	
APT1608SF4C-P22	Water Clear	880	20mA	0.8	1.5	150°	
APT2012F3C-P22	Water Clear	940	20mA	0.8	2	160°	

INFRARED

Part Number	Lens Type	λP (nm)	Test Condition	Po(mW/sr)		Viewing Angle	Dimensions
				Min.	Typ.		
APTD3216F3C-P22	Water Clear	940	20mA	2	5	40°	
APTD3216SF4C-P22	Water Clear	880	20mA	1.6	4	40°	
WP710A10F3BT-P22	Blue Transparent	940	20mA *50mA	3 / *12	8 / *25	30°	
WP710A10F3C-P22	Water Clear	940		3 / *12	8 / *25	30°	
WP710A10SF4C-P22	Water Clear	880		7 / *12	12 / *30	30°	
WP710A10SF4BT-P22	Blue Transparent	880	20mA	7	12	30°	
WP7113F3BT-P22	Blue Transparent	940	20mA *50mA	8 / *25	20 / *50	20°	
WP7113F3C-P22	Water Clear	940		8 / *25	20 / *50	20°	
WP7113SF4BT-P22	Blue Transparent	880		6 / *12	15 / *25	20°	
WP7113SF4C-P22	Water Clear	880		6 / *12	15 / *25	20°	
WP7113SF6BT-P22	Blue Transparent	860		18 / *55	40 / *100	20°	
WP7113SF6C-P22	Water Clear	860		18 / *55	40 / *100	20°	

PHOTOTRANSISTOR

Part Number	Lens Type	I (on)		Unit	Test Condition	Dimensions
		Min.	Typ.			
AA4040P3C-P22	Water Clear	0.35	0.6	mA	VCE=5V, Ee=1mW/cm ² λ =940nm	
AM2520P3C03-P22	Water Clear	0.8	1.5	mA		
AP1608P1C-P22	Water Clear	0.1	0.3	mA		
AP2012P3C-P22	Water Clear	0.2	0.4	mA		

PHOTOTRANSISTOR

Part Number	Lens Type	I _{on} **Light Current (Is)		Unit	Test Condition	Dimensions
		Min.	Typ.			
APA3010P3BT-P22	Blue Transparent	0.1	0.3	mA	VCE=5V, Ee=1mW/cm ² λ=940nm	
APT2012P3BT-P22	Blue Transparent	0.1	0.3	mA		
APTD3216P3C-P22	Water Clear	0.4	1	mA		
WP3DP3BT/BD-P22	Blue Transparent	0.1	0.2	mA		
WP7113P3C-P22	Water Clear	0.5	2.5	mA	VCE=5V, Ee=1mW/cm ² λ=940nm	
PHOTODIODE						
WP7113PD1BT/BD-P22	Blue Transparent	**1.2	**2	uA	VR=5V, Ee=0.08mW/cm ² λ=940nm	

AMBIENT LIGHT PHOTO SENSOR

Part Number	Lens Type	Wavelength of peak sensitivity (nm)	Angle of half sensitivity	Dimensions
APS3227SP1C-P22	Water Clear	580	120°	

RGB COLOR SENSOR

Part Number	Lens Type	Wavelength of peak sensitivity (nm)	Angle of half sensitivity	Dimensions
APS5130PD7C-P22	Water Clear	620 / 550 / 470	120°	

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