

O/E Converter Selection Chart

	TIA-525		TIA-952	TIA-1200		TIA-3000
Detector Types	Silicon(400-1000nm) In-GaAs (850 -1700nm)		InGaAs (850-1700nm)	InGaAs (900 -1700nm)		InGaAs (900 -1700nm)
Transimpedance Ranges	1.4 K, 14 K		1.2 K	50 Ohm internal in parallel, user supplied load		$V_R = 450 \text{ V/W}$
Current Responsivity	N/A		N/A	0.8 A./W @ 1550nm Typ.		N/A
Post Amplifier Gain	1.0, 10.0 selectable		1.0, 5.0 selectable	Not amplified		NA
Max. Linear Input Power	1.2 mW		2 mW	3 mW		1.25 mW
Max. Input w/o Damage	10 mW		15 mW	10 mW		2.5 mW
Bandwidth (-3 dB) 50 Ohms	DC - 125 MHz Tr =1.4K DC - 35 MHz Tr = 14K		30KHz - 800 MHz Gain 1.0 30KHz - 300 MHz Gain 5.0	DC to 12GHz Typ. 10 GHz Min.		40 KHz to 11 GHz (typ) 8.5 GHz (min.)
Output Impedance	50 Ohms		50 Ohms	50 Ohms		50 Ohms
Output Connector	Male BNC		Male BNC	SMA Type K Female		SMA Type K Female
F. O. Input Connector	ST, FC or Free-Space		FC or ST	FC/UPC or FC/APC		FC/UPC or FC/APC
Input Numeric Aperture	0.29		0.29	0.11 9 μm Singlemode		0.11 9 μm Singlemode
Inter-Stage Coupling	AC or DC selectable		AC	DC		AC
Output Offset Voltage	+/- .1 V at Max Gain		N/A	0		NA
Max Output Voltage	4 V pk-pk, no load, 2 V pk-pk 50 ohm load		2 V pk-pk 50 ohm load	0.1 V		0.65 V into 50 Ohms
Noise Level	3 pW/Hz ^{1/2}		9.5 pW/Hz ^{1/2}	Dark Current <1.0 nA		15pW/Hz ^{1/2}
Power Required	9 V Lithium Battery or Univ. Power Supply		Universal Power Supply	Univ. Power Supply		Universal Power Supply
Dimensions	1.2W, 2.5L, 1.35H inches 30.5W, 63L, 33H mm		1.2W, 2.5L, 1.35H inches 30.5W, 63L, 33H mm	1.2W, 2.5L, 1.35H inches 30.5W, 63L, 33H mm		1.2W, 2.5L, 1.35H inches 30.5W, 63L, 33H mm
Weight	4 oz, 114 g		4 oz, 114 g	2.8 oz, 80g		2.8 oz, 80 g
Operating Temperature	0 to 40 C		0 to 40 C	0 to 40 C		0 to 40 C
Limited Warranty	1 yr from date of receipt		1 yr from date of receipt	1 yr from date of receipt		1 yr from date of receipt

Specifications subject to change without notice

