



## PIN-PIN Diode Limiters 500 MHz to 18.0 GHz

### PASSIVE LIMITER -- EPL SERIES

- > Power Handling: 1 Watt CW and 100 Watts Peak  
(1  $\mu$ sec Pulse Width, 0.1% Duty Cycle,  
Derated to 20% @ +125°C.)
- > Internal DC Return
- > Fast Recovery Time (10 to 20 nsec Typ.)
- > Limiting Threshold above +9 dBm Typ.

ENVIRONMENTAL RATING  
 Operating Temperature Range: -55°C to +90°C  
 Storage Temperature Range: -65°C to +125°C  
 Shock: 50G, 11 msec  
 Vibration: 20G, 100 to 2000 Hz  
 Specification @ +25°C and -10 dBm Input Power

Model No.	Frequency (GHz)	Insertion Loss (dB)	VSWR (Typical)	Maximum Leakage Power (dBm)	
				(PEAK)	(CW)
<b>Broad Band Limiter</b>					
EPL0520	0.5 - 2.0	0.5	1.40:1	+23.0	+20.0
EPL0140	0.5 - 4.0	0.6	1.40:1	+23.0	+20.0
EPL2018	2.0 - 18.0	2.5	2.20:1	+23.0	+19.0
EPL6018	6.0 - 18.0	2.2	2.00:1	+20.0	+19.0
EPL8018	8.0 - 18.0	2.2	2.00:1	+20.0	+19.0
<b>Octave Band Limiter</b>					
EPL0510	0.5 - 1.0	0.4	1.40:1	+23.0	+20.0
EPL0714	0.7 - 1.4	0.4	1.40:1	+23.0	+20.0
EPL1020	1.0 - 2.0	0.4	1.40:1	+23.0	+19.0
EPL2040	2.0 - 4.0	0.8	1.50:1	+23.0	+18.5
EPL2080	2.0 - 8.0	1.2	1.60:1	+20.0	+18.5
EPL2550	2.5 - 5.0	0.8	1.50:1	+23.0	+18.5
EPL4080	4.0 - 8.0	1.2	1.50:1	+20.0	+18.0
EPL5010	5.0 - 10.0	1.4	1.50:1	+20.0	+18.0
EPL7012	7.0 - 12.0	1.5	1.80:1	+20.0	+18.0
EPL8012	8.0 - 12.0	1.5	1.80:1	+20.0	+18.0
EPL8016	8.0 - 16.0	2.0	2.00:1	+20.0	+18.0
EPL1118	11.0 - 18.0	2.2	2.20:1	+20.0	+18.0
<b>Narrow Band Limiter</b>					
EPL1724	1.7 - 2.4	0.4	1.35:1	+23.0	+20.0
EPL2223	2.2 - 2.3	0.4	1.35:1	+23.0	+20.0
EPL3742	3.7 - 4.2	0.8	1.40:1	+23.0	+19.0
EPL5459	5.4 - 5.9	0.8	1.40:1	+23.0	+18.5
EPL5865	5.8 - 6.5	1.0	1.50:1	+23.0	+18.0
EPL7585	7.5 - 8.5	1.2	1.60:1	+20.0	+18.0
EPL8596	8.5 - 9.6	1.4	1.50:1	+20.0	+18.0
EPL1014	10.0 - 14.0	1.6	1.80:1	+20.0	+18.0
EPL1315	13.0 - 15.0	1.6	1.80:1	+20.0	+18.0
EPL1416	14.0 - 16.0	1.8	2.00:1	+20.0	+18.0
EPL1618	16.0 - 18.0	2.2	2.00:1	+20.0	+18.0