



PIN-Schottky Diode Limiters
500 MHz to 18.0 GHz

ACTIVE LIMITER -- ESL SERIES

- > Power Handling: 1 Watt CW and 100 Watts Peak
(1 μ sec Pulse Width, 0.1% Duty Cycle,
Derated to 20% @ +125°C.)
- > Internal DC Block
- > 200 μ sec Recovery Time
- > Limiting Threshold above +6 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)
Broad Band Limiter					
ESL0520	0.5 - 2.0	0.6	1.5:1	+20	+16
ESL0140	0.5 - 4.0	0.8	1.5:1	+20	+16
ESL2018	2.0 - 18.0	2.5	2.2:1	+20	+16
ESL6018	6.0 - 18.0	2.5	2.2:1	+19	+15
ESL8018	8.0 - 18.0	2.5	2.2:1	+19	+15
Octave Band Limiter					
ESL0510	0.5 - 1.0	0.5	1.5:1	+20	+16
ESL0714	0.7 - 1.4	0.6	1.5:1	+20	+16
ESL1020	1.0 - 2.0	0.6	1.5:1	+20	+16
ESL2040	2.0 - 4.0	0.8	1.5:1	+20	+16
ESL2080	2.0 - 8.0	1.4	1.6:1	+20	+16
ESL2550	2.5 - 5.0	1.2	1.5:1	+20	+16
ESL4080	4.0 - 8.0	1.4	1.6:1	+19	+15
ESL5010	5.0 - 10.0	1.6	1.6:1	+19	+15
ESL7012	7.0 - 12.0	1.6	1.6:1	+19	+15
ESL8012	8.0 - 12.0	1.6	1.6:1	+19	+15
ESL8016	8.0 - 16.0	2.2	1.8:1	+19	+14
ESL1118	11.0 - 18.0	2.4	2.2:1	+19	+14
Narrow Band Limiter					
ESL1214	1.2 - 1.4	0.4	1.5:1	+18	+15
ESL1724	1.7 - 2.4	0.4	1.5:1	+18	+15
ESL2223	2.2 - 2.3	0.4	1.5:1	+18	+15
ESL3742	3.7 - 4.2	0.8	1.5:1	+18	+15
ESL5459	5.4 - 5.9	0.8	1.5:1	+18	+15
ESL5865	5.8 - 6.5	1.0	1.5:1	+18	+15
ESL7585	7.5 - 8.5	1.2	1.6:1	+17	+14
ESL8596	8.5 - 9.6	1.4	1.6:1	+17	+14
ESL1014	10.0 - 14.0	1.6	1.8:1	+17	+14
ESL1315	13.0 - 15.0	1.6	1.8:1	+17	+14
ESL1416	14.0 - 16.0	1.8	2.0:1	+17	+14
ESL1618	16.0 - 18.0	2.4	2.2:1	+17	+14