



LIMITER-SCHOTTKY DIODE DETECTORS

DSL SERIES

1 - 18 GHz

FEATURES

- 1 Watt CW, 100 Watts Peak Power Capability
- Optimum Limiter-Detector Interface Design
- Flat Frequency Response
- High Output Sensitivity
- Hermetically-Sealed Module



APPLICATIONS

- Radar Equipment
- Transmitter Monitoring
- Power and Signal Monitoring
- Missile Guidance Systems

ENVIRONMENTAL RATINGS

Max Input Power..... 1 Watt CW
100 Watt Peak Power Capability
Operating Temperature Range.....-55°C to +125°C
Storage Temperature Range.....-55°C to +150°C
Shock..... 50G, 11 msec
Vibration..... 20G, 100 to 2000 Hz

Specifications: (@ +25°C, Up to -20dBm Power Input)

MODEL ¹	FREQUENCY RANGE (GHz)	MINIMUM SENSITIVITY K (mV / mW)	TYPICAL TSS ² (dBm)	TYPICAL FLATNESS (+/- dB)	NOMINAL BIAS (μA)	TYPICAL OUTPUT CAPACITANCE (pF)	PACKAGE ³ STYLE
DSL102	1.0 – 2.0	1500	-51	0.5	100	20	C
DSL204	2.0 – 4.0	1500	-51	0.5	100	10	C
DSL408	4.0 – 8.0	1500	-51	0.5	100	10	C
DSL812	8.0 – 12	1200	-50	0.5	100	10	C
DSL816	8.0 – 16	1200	-50	0.8	100	10	C
DSL818	8.0 – 18	1000	-49	0.8	150	10	C
DSL718	7.0 – 18	1000	-49	0.8	150	10	C
DSL218	2.0 – 18	1000	-49	1.25	150	10	C

Note 1: Negative output polarity standard. Add "P" to end of model number for positive output polarity.

Note 2: TSS based on 2 MHz video bandwidth and 2 dB amplifier NF.

Note 3: See detector package outlines.

For Package Outlines see Outline Drawings Page