



BIASED SCHOTTKY DIODE DETECTORS

MULTI-DIODE HIGH SENSITIVITY DQS & DDS SERIES

0.1 - 18 GHz

FEATURES

- Extremely High Sensitivity
- Low VSWR In Square Law Range
- Very Flat Frequency Response
- Hermetically-Sealed Module



APPLICATIONS

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

ENVIRONMENTAL RATINGS

Max Input Power 100mW CW
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	FREQ RANGE (GHz)	MIN SENSITIVITY K (mV / mW)	TYP ² TSS (+dBm)	MAX FLATNESS (± dB)	MAX VSWR	NOMINAL BIAS (μA)	TYPICAL OUTPUT		PACKAGE ³ STYLE
							RESISTANCE (OHMS)	CAPACITANCE (pF)	
DQS004	0.1 - 4.0	3800	-55	0.4	2:1	100	1600	100	C
		2000	-52	0.3	1.5:1	180	800		
DQS104	1.0 - 4.0	3800	-55	0.4	2:1	100	1600	20	C
		2000	-52	0.3	1.5:1	180	800		
DQS010	0.1 - 10.0	3500	-55	0.8	2.5:1	100	1600	100	C
		1800	-52	0.6	1.8:1	180	800		
DQS110	1.0 - 10.0	3300	-54	0.8	2.5:1	100	1600	20	C
		1800	-52	0.6	1.8:1	180	800		
DDS018	0.1 - 18.0	2200	-53	1.0	4.5:1	100	800	100	B
		1500	-51	0.8	2.5:1	200	400		
DDS118	1.0 - 18.0	2200	-53	1.0	4.5:1	100	800	20	B
		1500	-51	0.8	2.5:1	200	400		
DDS218	2.0 - 18.0	2200	-53	1.0	4.5:1	100	800	10	B
		1500	-51	0.8	2.5:1	200	400		

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 Outlines see Outline Drawings Page