

Biased Schottky Diode Detectors

BROADBAND BIASED DETECTORS

DSN Series

500 MHz to 26.0 GHz

- ◆ Fast Response Time
- ◆ High Sensitivity
- ◆ Wide Dynamic Range
- ◆ Coaxial
- ◆ Drop-In
- ◆ Replaceable Connectors

HIGH SENSITIVITY/LOW VSWR DETECTORS

DQN Series

100 MHz to 3.5 GHz

- ◆ Fast Response Time, 20 nanoseconds typical
- ◆ Very Sensitive Video Detection Devices
- ◆ Wide Dynamic Range
- ◆ Low Output Resistance (R_v), 350 ohms typical
- ◆ Extremely Low VSWR, 1.30:1 maximum

Maximum Input Power = 200mW CW

Operating Temperature Range = -55°C to +125°C

Storage Temperature Range = -65 to +150°C

Specification @ +25°C, 100 μA Bias typical, Input Power at -20 dBm

DSN Series

FREQUENCY (GHz)	MODEL NO. ¹	VOLTAGE SENSITIVITY ² (min. mV/mW)	TANGENTIAL SENSITIVITY (min. dBm)	FLATNESS (max. dB)	VIDEO CAPACITANCE (max. pF)	PACKAGE STYLES AVAILABLE ³
0.5 - 1.0	DSN0510	1800	-52	0.50	100	ALL
1.0 - 2.0	DSN1020	2000	-52	0.50	20	ALL
2.0 - 4.0	DSN2040	2000	-52	0.50	10	ALL
4.0 - 8.0	DSN4080	2000	-52	0.50	10	ALL
6.0 - 18.0	DSN6018	1600	-52	0.80	10	ALL
8.0 - 12.0	DSN8012	1800	-52	0.50	10	ALL
8.0 - 16.0	DSN8016	1800	-52	0.60	10	ALL
8.0 - 18.0	DSN8018	1600	-52	0.70	10	ALL
18.0 - 26.0	DSN1826	1500	-52	1.00	10	M2

DQN Series

.100 - .125	DQN112	4000	-55	0.20	100	M3,R2,D
.220 - .300	DQN261	3800	-55	0.20	50	M3,R2,D
.400 - .600	DQN451	3500	-54	0.25	20	M3,R2,D
.600 - .850	DQN585	3500	-54	0.25	20	M3,R2,D
.950 - 1.20	DQN1075	3000	-53	0.25	20	M3,R2,D
1.40 - 1.60	DQN1501	3000	-53	0.25	10	M3,R2,D
1.50 - 1.80	DQN1651	3000	-53	0.25	10	M3,R2,D
2.10 - 2.40	DQN2251	3000	-53	0.25	10	M3,R2,D
3.10 - 3.50	DQN3301	3000	-53	0.25	10	M3,R2,D

¹ Negative output polarity is standard. Change the letter "N" to "P" for positive output polarity.

² T_{ss} is measured with a 2 MHz video bandwidth and 2 dB NF amplifier.

³ To indicate package style, add it to the end of the model number. See page 7 for package style specifications.
(i.e. DTP2018M2 - Positive polarity and Package Style "M2")