



PADDED ZERO BIAS SCHOTTKY DETECTORS

Detectors with internal attenuators are often requested. They are typically used in circuits where an improved RF match is needed or where the power levels applied are higher than is typical for low level detectors. Frequently, they are used in laboratory applications with associated instruments such as broadband power leveling or monitoring. These detectors are all zero bias, making them convenient to use.

Features:

- Superior Flatness vs. Frequency
- Wide Frequency Range
- Improved Return Loss
- Higher Power Handling



Applications:

- Transmitter Monitoring
- Missile Guidance Systems
- Input to Low-Noise Amplifiers
- Broadband Or Narrowband ECM Receivers
- Power and Signal Monitors
- Doppler Radar and Beacon Receivers
- Matched units available for Multi-channel Receivers, Amplitude Comparator Systems and Discriminators
- Laboratory Test Equipment

Frequency Range (GHz)	Part (1) Number	Flatness vs Frequency (+/-dB)	TSS (dBm)	Internal Attenuation (dB)	Low Level Sensitivity (mV/mW)(2)	Standard Case Styles	Optional Case Styles
2 - 4	ACSP2579NZ	0.2	-45	6	500	C8	C3,C15
0.01 - 8	ACSP2539NZ	0.5	-45	6	500	C3	C8,C15,C32,C74
7.9 - 8.4	ACSP2518NZ	0.1	-45	6	500	C3	C8,C15,C32
7.9 - 8.4	ACSP2519PZ	0.1	-48	3	1000	C3	C8,C15,C32
0.01 - 12.4	ACSP2663NZ	0.5/octave	-45	6	500	C8	C15,C32
0.01 - 18	ACSP2544NZ	0.5/octave	-45	6	500	C3	C15,C32
0.01 - 18	ACSP2551NZ	0.5/octave	-44	7	400	C3	C15,C32
5 - 18	ACSP2521PZ	0.5/octave	-44	6	500	C3	C15,C32
0.01 - 20	ACSP2643NZ	0.5/octave	-46	3	1000	C3	C15,C32
0.01 - 20	ACSP2644NZ	1.0	-44	7	500	C15	C3,C32

NOTES:

- 1) Standard output polarity is negative unless otherwise noted. If positive output is required, substitute "P" for "N" in part number.
- 2) Measured into an open circuit load (>10k ohm).



ENVIRONMENTAL SPECIFICATIONS:

MIL-E-5400, MIL-STD-202, MIL-E-16400
 Storage Temp: -65°C to +150°C
 Humidity: MIL-STD-202F, M103, Cond B
 Shock: MIL-STD-202F, M213, Cond B
 Altitude: MIL-STD-202F, M105, Cond B
 Vibration : MIL-STD-202F, M204, Cond B
 Thermal Shock: MIL-STD-202F, M107, Cond A
 Temperature Cycle: MIL-STD-202F, M105C, Cond D
 Maximum Input Power: +23dBm

SCREENING :

Standard Screening:

Internal Visual per MIL-STD-883, Method 2017

Temperature Cycle: -65°C to +100°C, 10 cycles

Optional High-Rel Screening (Ref MIL-PRF-38534):

Internal Visual per MIL-STD-883, Method 2017

Stabilization Bake per MIL-STD-883, Method 1008

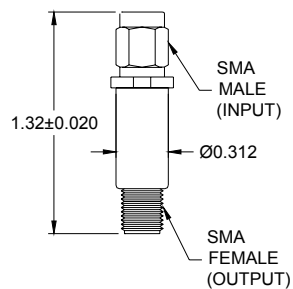
Temperature Cycle per MIL-STD-883, Method 1010

Constant Acceleration per MIL-STD-883, Method 2001

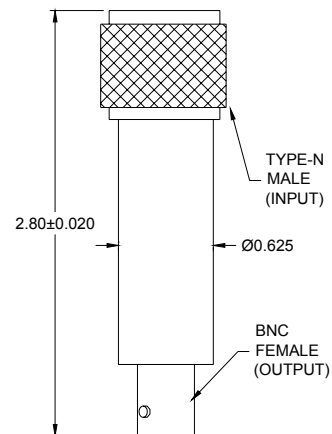
Burn-in per MIL-STD-883, Method 1015

Leak Test per MIL-STD-883, Method 1014

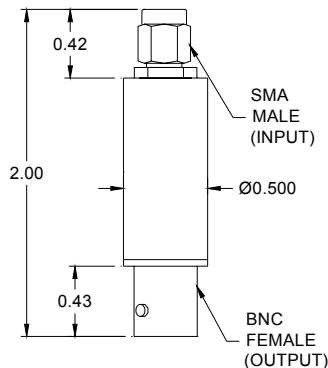
External Visual per MIL-STD-883, Method 2009



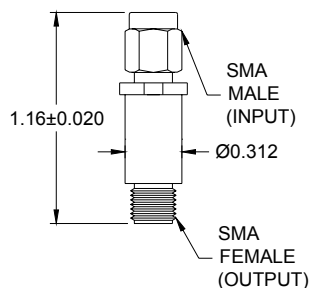
CASE STYLE C3



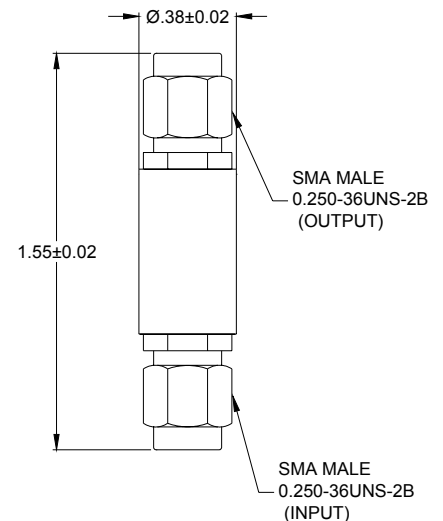
CASE STYLE C8



CASE STYLE C15



CASE STYLE C32



CASE STYLE C74

Part Number Ordering Information:

Example: ACSP2663NZC3

ACSP2663: Padded Zero Bias Schottky Detector, 0.01 – 12.4GHz

N: Negative output polarity

Z: Zero bias

C3: Package type