

DESCRIPTION

PMI MODEL: DD-34G37G-N-ZBS-15DBM-292MF IS A LOW NOISE ZERO BIASED DETECTOR OPERATING OVER THE 34 TO 37 GHz FREQUENCY RANGE. THIS MODEL OFFERS EXCELLENT DYNAMIC RANGE AND A TYPICAL OUTPUT VOLTAGE OF MORE THAN 2 VOLTS @+15dBm INPUT POWER INTO A 600Ω LOAD.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE		

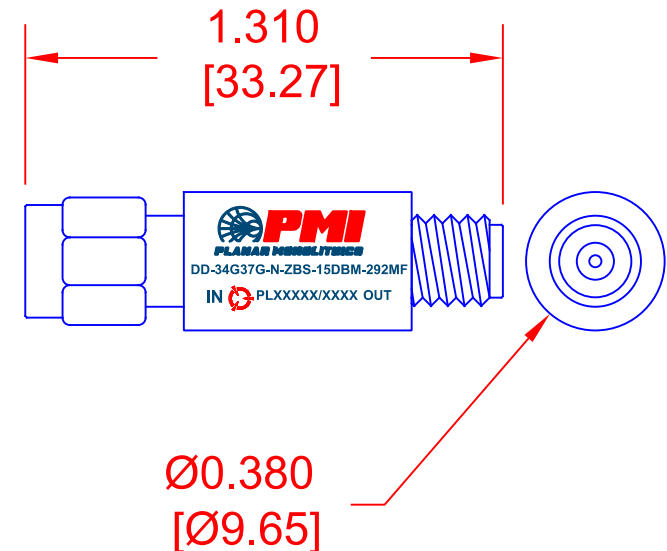
SPECIFICATIONS (WITH HIGH IMPEDANCE LOAD)

- FREQUENCY RANGE: ----- 34 TO 37 GHz
- POLARITY: ----- NEGATIVE
- VOLTAGE SENSITIVITY: ----- >500 mV/mW (Open Circuit)
- DYNAMIC VOLTAGE OUTPUT: ----- >2.0 V OUTPUT @+15dBm (into a 600Ω load)
- TANGENTIAL SENSITIVITY: ----- -40 dBm Minimum
- TEMPERATURE STABILITY: ----- ±0.5 dB TYPICAL OVER TEMP EXTREMES
- MAXIMUM FLATNESS: ----- ±1 dB Max
- RISE TIME: ----- 5 ns TYPICAL
- VSWR: ----- 5.5:1 Max
- OUTPUT CAPACITANCE: ----- <10 pF TYPICAL
- OUTPUT RESISTANCE: ----- <3.5KΩ TYPICAL
- INPUT POWER: ----- +20dBm CW MAXIMUM
- CONNECTORS: ----- 2.92 mm MALE IN/ FEMALE OUT
- SIZE: ----- (L) 1.30" x Ø0.31"
----- (L) 33.02 mm x Ø7.87 mm
- FINISH: ----- ALBALOY PLATING

LABEL



MECHANICAL OUTLINE



ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -20 °C TO +85 °C (OPERATING)
----- -55 °C TO +100 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. G (50g, 11 ms)
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. D (20 g, 10 - 2000 MHz)
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

ALL DIMENSIONS
ARE IN INCHES (mm)
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

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APPROVALS		DATE		TITLE			
DRAWN		E. Benson		16/26/2020			
REDRAWN							
ISSUED							
				PRODUCT FEATURE DD-34G37G-N-ZBS-15DBM-292MF			
				SIZE	FSCM NO.	DWG NO.	REV.
				A	05XQ0	27055800	A
				SCALE	N:S	SHEET	1 OF 1