

DESCRIPTION

PMI MODEL DD-20-34 IS A HIGH SPEED DC-COUPLED, DIRECTIONAL DETECTOR WITH 20 dB DIRECTIVITY AND 3 WATT INPUT POWER HANDLING. THE DD-20-34 IS DESIGNED TO OPERATE OVER THE 3.0 TO 3.5 GHz BAND AND THE SIZE IS 2.44" x 1.50" x 0.77"

SPECIFICATIONS

- FREQUENCY RANGE: 3.0 TO 3.5 GHz (OTHER FREQUENCY RANGES AVAILABLE)
- INSERTION LOSS: 0.5 dB
- INSERTION LOSS VARIATION: 0.2 dB OVER FREQUENCY
- VSWR INPUT: 1.25:1 MAXIMUM
- IMPEDANCE: 50 OHMS
- MINIMUM DIRECTIVITY: 20 dB (NARROW BAND ONLY)
- MAXIMUM RF INPUT: 3 WATTS
- DETECTOR OUTPUT VOLTAGE:

RF POWER INPUT

VOLTAGE OUTPUT

+26 dBm	150-220 mV
+23 dBm	94-130 mV
+20 dBm	58-83 mV
+16 dBm	31-46 mV

- VIDEO BANDWIDTH (IF FREQUENCY): 10 MHz (UP TO 500 MHz ARE AVAILABLE)
- DC POWER: $\pm 15V$
- SIZE: 2.44" x 1.5" x 0.77"
- WEIGHT: < 4 OUNCES

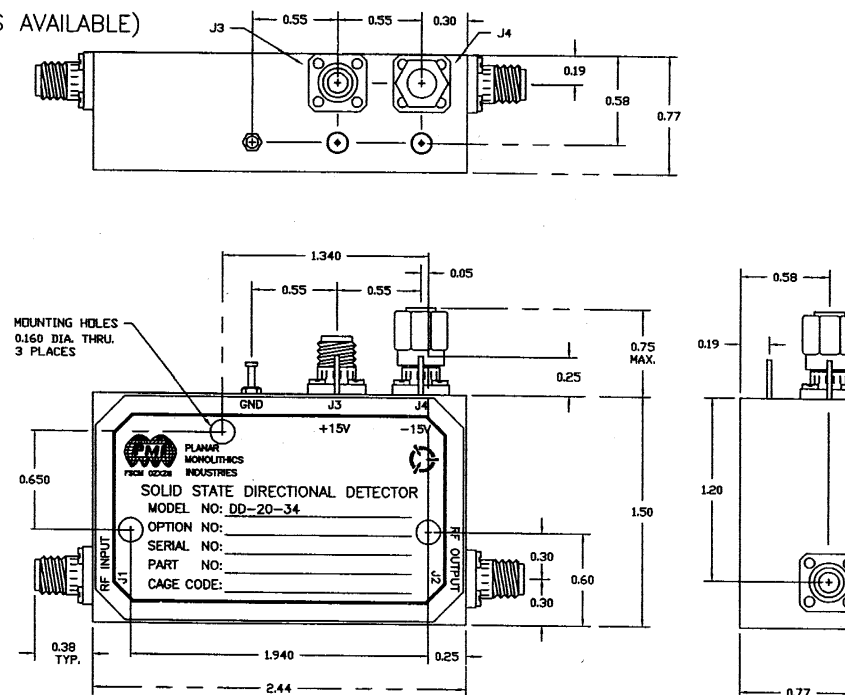
ENVIRONMENTAL RATINGS

- TEMPERATURE: -55°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	-	ORIGINAL JOB # P61015E-2	5/15/02	

MECHANICAL OUTLINE



NOTES:

- 1) DIMENSIONS ARE IN INCHES
- 2) TOLERANCES: X.XX ± 0.020
X.XXX ± 0.010
- 3) WEIGHT: < 4.0 OZ

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CONFIDENTIAL AND PROPRIETARY

PART NO.		 PLANAR MONOLITHICS INDUSTRIES FREDERICK, MARYLAND	
APPROVALS		DATE	
DRAWN <i>WSP</i>		5/15/02	
CHECKED <i>WSP</i>		5/15/02	
ISSUED <i>WSP</i>		5/15/02	
TITLE		PRODUCT FEATURE DD-20-34 DIRECTIONAL DETECTOR	
SIZE	FSCM NO.	DWG NO.	REV.
A	OZXZ8	100-6360	-
SCALE N:S		SHEET 1 of 3	