

DESCRIPTION

THE MODEL DD-50-218-12PF-2-N-SFF IS A HIGH SPEED, HIGH SENSITIVITY SCHOTTKY DIODE DETECTOR REQUIRING 50 TO 100 μ A BIAS AND OFFERING EXCELLENT TEMPERATURE STABILITY. THE FREQUENCY RANGE IS 2.0 TO 18.0 GHz.

SPECIFICATIONS

- FREQUENCY RANGE:..... 2.0 TO 18.0 GHz
- VSWR 3.5:1 MAX (MEASURED @ -23 dBm)
- FREQUENCY FLATNESS ± 1.5 dB MAX, ± 1.25 dB TYP.
- BIAS CURRENT 50 TO 100 μ A (APPLIED TO VIDEO OUTPUT)
- VOLTAGE SENSITIVITY..... 1000 mV/mW MIN
- TANGENTIAL SENSITIVITY..... -50 dBm (2 MHz VIDEO BANDWIDTH WITH 2 dB NOISE FIGURE VIDEO AMP)
- VIDEO CAPACITANCE 12.0 pF
- OUTPUT VOLTAGE NEGATIVE IS STANDARD
- MAX INPUT POWER 100 mW
- VIDEO RESISTANCE 700 OHMS MAX
- CONNECTORS..... SMA (M) INPUT & SMA (F) OUTPUT
- FINISH STAINLESS STEEL
- SIZE 1.314" X 0.375" DIA

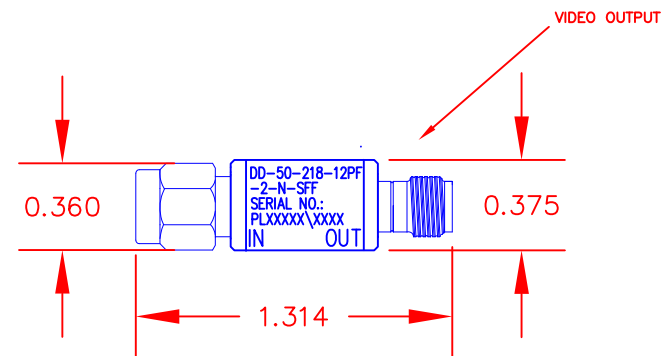
ENVIRONMENTAL RATINGS

- **TEMPERATURE:** -40°C TO +55°C (OPERATING)
..... -54°C TO +85°C (STORAGE)
- **SHOCK:** MIL-STD-810G
- **VIBRATION:** MIL-STD-810G

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ± 0.02
X.XXX ± 0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	10-13-15	JM



CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

4921 ROBERT J MATHEWS PKWY
EL DORADO HILLS, CA 95762 USA
TEL: 916-542-1401 FAX: 916-265-2597
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001:2008 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN	JS	10/13/15		PRODUCT FEATURE	
CHECKED				DD-50-218-12PF-2-N-SFF	
ISSUED				HIGH SPEED HIGH SENSITIVITY BIASED DIODE DETECTOR	
SIZE	FSCM NO.	DWG NO.			REV.
A	71A34	PRELIMINARY			-
SCALE	N:S			SHEET	1 OF 1