



RADIALL

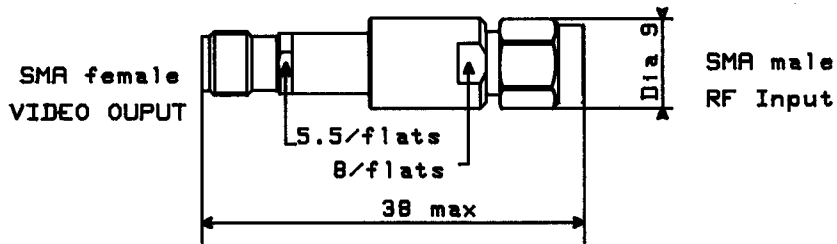
R451542500

**TECHNICAL
DATA SHEET**

TITLE **WIDE BAND COAXIAL DETECTOR**

LTR. **A**

DRAWING:



General tolerances: ± 0.5 mm

ELECTRICAL CHARACTERISTICS:

FREQUENCY RANGE : .01 - 18 GHz
 IMPEDANCE : 50 Ohms
 V.S.W.R. from 0.01 to 8 GHz : ≤ 1.35
 from 8 to 18 GHz : ≤ 1.50
 FREQUENCY RESPONSE (0.01- 8 GHz): ± 0.2 dB/Octave
 (0.01-12.4 GHz): ± 0.5 dB
 (0.01-18 GHz): ± 1 dB

SENSITIVITY :
 Low level : > 500 mV / mW
 (Input power ≤ -20 dBm)
 High level : > 100 mV
 (Input power = 0.35 mW)

POLARITY : Positive
 TANGENTIAL SENSITIVITY : - 44 dB mini
 SQUARE LAW RESPONSE LIMIT : - 12 dBm
 VIDEO IMPEDANCE : 1 k Ω typical
 FILTERING CAPACITY : 20 pF typical
 MAXIMUM POWER : 200 mW CW
 DIODE : SCHOTTKY << zero Bias >>

MECHANICAL CHARACTERISTICS:

INPUT CONNECTOR : SMA male per MIL C 39012
 VIDEO OUPUT CONNECTOR : SMA female per MIL C 39012
 MAXIMUM WEIGHT : 12 grams

ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE RANGE : - 65°C + 120°C
 STORAGE TEMPERATURE RANGE : - 65°C + 120°C
 NOMINAL FOR USE : - 25°C + 70°C
 VIBRATIONS (STD 202) : Method 204 Condition D
 SHOCS (STD 202) : Method 213 Condition I

Tentative data subject to change without notice.

PEN 	QUALITY Dpt App. 10 DEC 1991					
	PAGE 1/1	DATE 09/12/91	NAME K. LUCIEN	LTR	REVISIONS	DATE

3294 - 9011