

COAXIAL DEVICES

SMA-SMB/SMA/SMC/BNC/ Solder pin detectors up to 18 GHz

WIDE BAND AND HIGH SENSITIVITY

	PART NUMBER		Connectors		Figure
	Negative polarity	Positive polarity	RF Input	Video output	
WIDE BAND	R451533000	R451533500	SMA male	SMB male	1
	R451534000	R451534500	SMA male	SMC male	2
	R451542000	R451542500	SMA male	SMA female	3
	R451543000	R451543500	SMA male	Solder pin	4
	R451544000	R451544500	SMA male	BNC female	5
HIGH SENSITIVITY	R451030000	R451030500	SMA male	SMB male	1
	R451031000	R451031500	SMA male	SMC male	2
	R451032000	R451032500	SMA male	SMA female	3
	R451033000	R451033500	SMA male	Solder pin	4
	R451034000	R451034500	SMA male	BNC female	5

SPECIFICATIONS FOR ALL COAXIAL DETECTORS

Impedance (Ω)	50
Square law response limit (dBm)	- 12
Average power (max) CW (mW)	200
Peak power max (W)	2 (10 ns, 1 ms)
Video impedance (k Ω)	1 typical
Filtering capacity (pF)	20 (typical)
Polarity	Negative or positive
RF input connector	SMA (male)
Video output connector	SMA (female) - SMC (male) - SMB (male) - Pin and Solder lug - BNC (female)
Diode	SCHOTTKY "zero bias"
Weight (g)	10

SPECIFICATIONS FOR WIDE BAND COAXIAL DETECTORS

Frequency range (GHz)	.01 - 18		
	.01 - 8	8 - 12.4	12.4 - 18
Frequency response (dB)	± 0.2	± 0.5	± 1
V.S.W.R.	≤ 1.35	≤ 1.50	
Tangential sensitivity min (dB)	- 44		
Sensitivity			
Low level (input power < - 20 dBm)	> 500 mV / mW		
High level (input power = 0.35 mW)	> 100 mV		

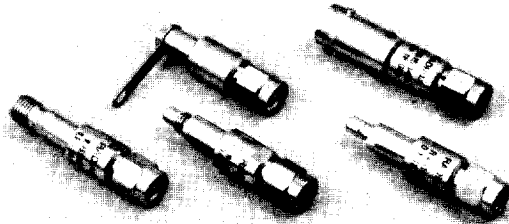
SPECIFICATIONS FOR HIGH SENSITIVITY COAXIAL DETECTORS

Frequency range (GHz)	1 - 18
V.S.W.R.	1 : 4 (Typical value)
Frequency response (dB)	± 2
Sensitivity (mV / mW)	
Low level (input power < - 20 dBm)	> 1500
Tangential sensitivity min (dB)	- 50

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WIDE BAND AND HIGH SENSITIVITY



TYPICAL OUTLINE DRAWING

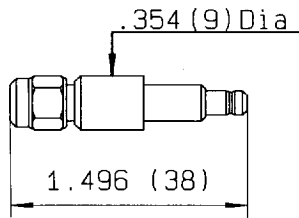


Fig. 1

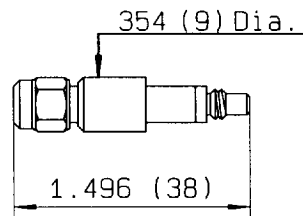


Fig. 2

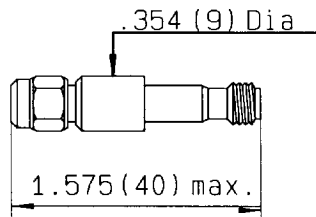


Fig. 3

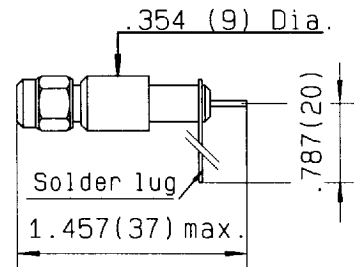


Fig. 4

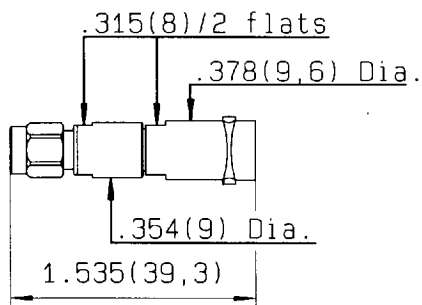


Fig. 5

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