

COAXIAL DEVICES

N - BNC Detectors up to 18 GHz

WIDE BAND AND CRYSTAL

	PART NUMBER		Connectors		Frequency range (GHz)
	Negative polarity	Positive polarity	RF Input	Video output	
WIDE BAND	R451574000	R451574500	N male	BNC female	.01 - 12.4
	R451576000	R451576500	N male	BNC female	.01 - 18
	R451572120		N male	BNC female	2.45
CRYSTAL DETECTOR	R451570000	R451570500	N male	BNC female	.01 - 4
	R451075000		N male	BNC female	.01 - 10

NOTA : If the active part of these detectors is damaged, it can be replaced by removable cartridge :

R451950000	for model	R451574000
R451952000	for model	R451574500
R451953000	for model	R451576000
R451954000	for model	R451576500

SPECIFICATIONS FOR WIDE BAND COAXIAL DETECTORS

Impedance (Ω)	50		
Frequency range (GHz)	.01 - 12.4 / .01 - 18		
	.01 - 8	8 - 12.4	12.4 - 18
V.S.W.R.	≤ 1.35	≤ 1.50	
Frequency response	± 0.2	± 0.5	± 1
Tangential sensitivity min (dB)	- 44		
Sensitivity Low level (input power < - 20 dBm) High level (input power = 0.35 mW)	> 500 mV / mW > 100 mV		80
Square law response limit (dBm)	- 12		
Average power max.CW (mW)	200		
Peak power max.CW (W)	2 (10ns, 1ms)		
Video impedance (k Ω)	1 (typical)		
Filtering capacity (pF)	20 (typical)		
Polarity	Negative or Positive		
RF input connector	N (male)		
Video output connector	BNC (female)		
Diode	SCHOTTKY "zero bias"		
Weight (g)	120		

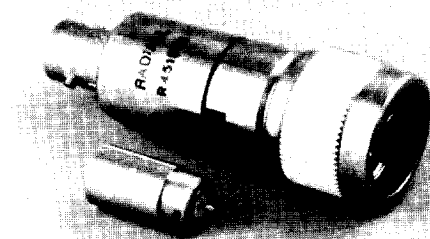
SPECIFICATIONS FOR CRYSTAL COAXIAL DETECTORS

Frequency range (GHz)	.01 - 10		
	.01 - 1	1 - 4	1 - 10
V.S.W.R.	1 : 1.6 (Typical value)	No specified	No specified
Sensitivity (mV / mW)	> 40		
Average power max.CW (mW)	100		

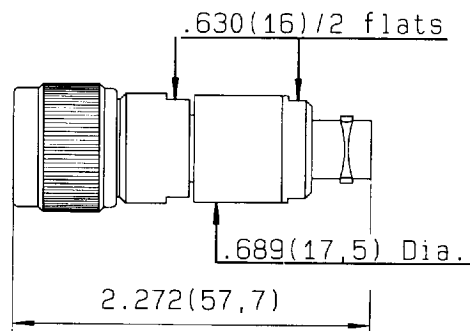
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TYPICAL OUTLINE DRAWING



Removable cartridge

