

.01-18 GHz

MINIATURE FLAT CRYSTAL DETECTORS

- Broadband Coverage
- Flat Frequency Response
- High Sensitivity
- Field Replaceable Diode
- Negative or Positive Output Available

SPECIFICATIONS

FREQUENCY RANGE (GHz)	MODEL	FLATNESS (dB) (GHz)			OVERALL FLATNESS (dB) 0.01-18.0 GHz	FREQUENCY TRACKING (dB) (GHz)			SENSITIVITY mV/μW	VSWR	INPUT POWER (mW Max)	POLARITY	CONNECTORS	
		0.01-8.0	8.0-12.4	12.4-18.0		0.01-8.0	8.0-12.4	12.4-18.0					RF MALE	OUTPUT FEMALE
0.01-18	503	±0.2/ Octave	±0.5	±1.0	1.0	±0.2/ Octave	±0.3	±0.6	0.4	<1.8	100	Neg.	Type N	BNC
	4503	±0.2/ Octave	±0.5	±1.0	±1.0	±0.2/ Octave	±0.3	±0.6	0.4	<1.8	100	Neg.	SMA	BNC

Options

Option 1*	Matched Pairs**
Option 2	SMC Output Connector
Option 3	Positive Voltage

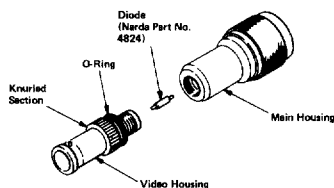
* These connectors mate without interference with fittings, complying with MIL-C-39012

**Matched sets of three available on request

Replacement Diode

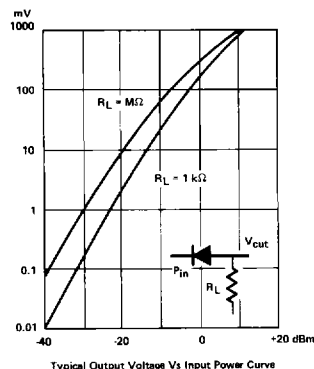
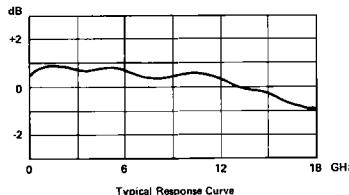
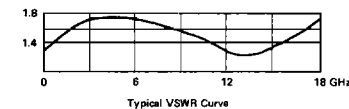
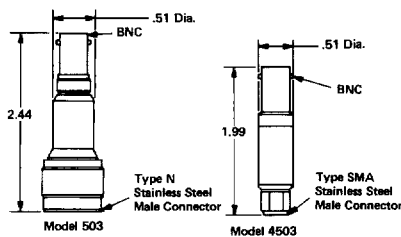
Model No. 4824

Field Diode Replacement Procedure



1. Hold Detector by main housing behind the (SMA or type N) connector nut. Grasp other end of the unit by the knurled section near the BNC connector. Unscrew VIDEO Housing. The Detector should be titled with the BNC connector up.
2. Remove diode and set aside.
3. Insert the replacement diode in socket. Green dot on diode should be visible for Negative (most common) output.
NOTE: Reverse diode for positive output.
4. Reassemble the connector and hand tighten.

OUTLINE DRAWINGS



All dimensions are Max. unless otherwise specified.