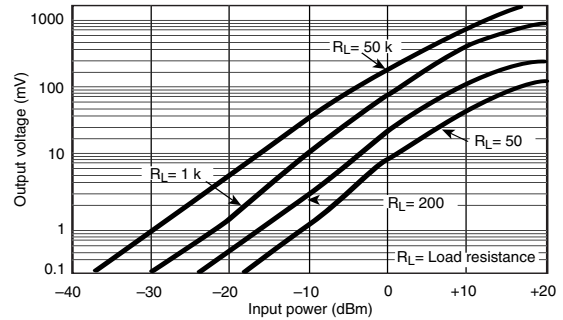
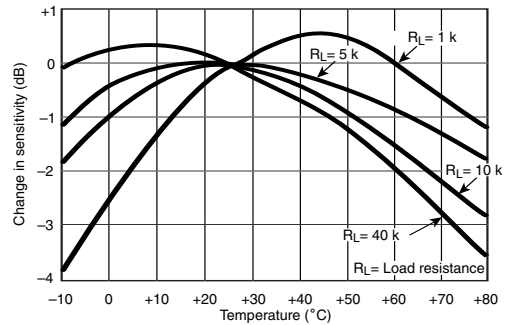


MICROWAVE DETECTORS

70, 75 Series 100 kHz to 50 GHz



Typical sensitivity



Typical sensitivity change

Within the 70 or 75 Series product lines, you will find a model that matches your needs for instrumentation, system, or OEM applications. By using the latest design and microelectronics production technologies, Anritsu low-barrier Schottky-diode detectors outperform others and offer significant cost savings. Input connector types include Type N, and K Connector[®] (compatible with SMA and 3.5 mm), and V Connector[®] (compatible with 2.4 mm). In addition to frequency coverage and price, these detectors are distinguished by their low SWR, flat frequency response, and close output-voltage tracking over a wide dynamic range.

Features

- Broadband coverage, 10 MHz to 50 GHz with a Single Detector
- K Connector[®] compatible with SMA and 3.5 mm
- V Connector[®] compatible with 2.4 mm
- Lowest SWR: 1.33 to 20 GHz, 1.5 to 40 GHz
- Flat Response: $\pm 0.5\text{ dB}$ to 20 GHz $\pm 1.5\text{ dB}$ to 40 GHz
- Best Value for Instrumentation, system, and OEM applications
- Low price and availability from stock
- Standard output polarity is negative
- Positive polarity is available as a special

MICROWAVE DETECTORS

70, 75 Series 100 kHz to 50 GHz

Specifications

Model	Frequency range	Flatness (dB)	Connectors		Impedance (Ω)	SWR (Maximum)	Low level sensitivity at -30 dBm (mV/ μ W)	High level sensitivity at +13 dBm (Volts, Min.)	Input maximum (mW)	Output capacitance (pF)
			In	Out						
70KA50	0.01 to 20 GHz	± 0.6	K(m)	SMC(f)	50	1.33	0.6	1	100	30
70KC50	0.01 to 40 GHz	± 0.5 to 20 GHz ± 1.0 to 26.5 GHz ± 1.5 to 40 GHz	K(m)	SMC(f)	50	1.33 to 20 GHz 1.50 to 26.5 GHz 1.90 to 40 GHz	0.4	1	100	30
75N50B	0.01 to 18 GHz	± 0.3 to 12.4 GHz ± 0.6 to 18 GHz	N(m)	BNC(f)	50	1.15 to 4.5 GHz 1.30 to 15 GHz 1.39 to 18 GHz	0.35	1	100	30
75KC50	0.01 to 40 GHz	± 0.5 to 20 GHz ± 1.0 to 26.5 GHz ± 1.5 to 40 GHz	K(m)	BNC(f)	50	1.33 to 20 GHz 1.50 to 26.5 GHz 1.90 to 40 GHz	0.4	1	100	30
75VA50	0.01 to 50 GHz	± 0.5 to 20 GHz ± 1.0 to 26.5 GHz ± 1.5 to 40 GHz ± 3 to 50 GHz	V(m)	BNC(f)	50	1.33 to 20 GHz 1.50 to 26.5 GHz 1.90 to 40 GHz 2.1 to 50 GHz	0.4	1	100	30

Dimensions

Model	Dimensions L(cm) x dia(cm)
70KA50	4.6 x 1.0
70KC50	4.6 x 1.0
75N50B	6.4 x 1.8
75KC50	4.6 x 1.0
75VA50	4.6 x 1.0

Ordering information

Please specify model/order number, name, and quantity when ordering.

Model/Order No.	Name
Microwave Detector	
70KA50	10 MHz to 20 GHz, K(m) input, SMC(f) output, 50 Ω
70KC50	10 MHz to 40 GHz, K(m) input, SMC(f) output, 50 Ω
75KC50	10 MHz to 40 GHz, K(m) input, BNC(f) output, 50 Ω
75N50B	10 MHz to 18 GHz, N(m) input, BNC(f) output, 50 Ω
75VA50	10 MHz to 50 GHz, V(m) input, BNC(f) output, 50 Ω
Options	
Option 2 (75KC50)	Matching frequency response of two detectors
Option 3 (75KC50)	Matching frequency response of three detectors

* Upper frequency limit (GHz): ≤ 8 , ≤ 12.4 , ≤ 18 , ≤ 26.5 , ≤ 40

** Frequency response tracking (dB): ± 0.2 , ± 0.3 , ± 0.6 , ± 0.8 , ± 1.2