

Specifications

	Wideband models			Measuring models		Low level models	
Model:	PM 7511	PM 7512	PM 7513	PM 7520	PM 7197X	PM 7195X	PM 7195 P
Diode type: (ordering no)	backdiode (PM 7731)	point contact (PM 7724)	Schottky (PM 7732)	point contact (PM 7725)	point contact (PM 7725)	point contact (PM 7721)	point contact (PM 7726)
Frequency range:	2—18 GHz	2—18 GHz	2—18 GHz	10 MHz—18 GHz	8.2—12.4 GHz	8—11 GHz	12.4—18 GHz
TSS (video BW 1 MHz) typ.:	—50 dBm	—50 dBm	—50 dBm	—40 dBm	—40 dBm	—50 dBm	—50 dBm
Bias:	0	20 μ A	100 μ A	0	0	0	0
VSWR typ.:	5	7	4	1.8 max.	1.5 max.	5	5
Freq. response 2—12 GHz:	± 1.5 dB	± 2 dB	± 2 dB	± 0.5 dB	± 0.3 dB	—	—
12—18 GHz:	± 2.5 dB	± 3 dB	± 4.5 dB	± 1.0 dB	—	—	—
Typical output voltage into 1 kohm at 10 GHz:	1 mV/ μ W	2 mV/ μ W	1.5 mV/ μ W	0.4 mV/ μ W	0.4 mV/ μ W	—	—
Level of 1 dB deviation from square law; typical	—20 dBm (—15 dBm with 200 Ω load)	—17 dBm	—16 dBm	—12 dBm	—12 dBm	—	—
Saturation power level:	0 dBm	+20 dBm	> +20 dBm	+20 dBm	+20 dBm	+20 dBm	+20 dBm
Max. RF power CW:	+17 dBm	+20 dBm	+20 dBm	+20 dBm	+20 dBm	+20 dBm	+20 dBm
Output impedance:	300 Ω /12 pF	1.5 K Ω /12 pF	1.5 k Ω /12 pF	—	—	—	—
Connectors input:	SMA-male	SMA-male	SMA-male	SMA-male	UBR 100	UBR 100	UBR 140
output:	SMA-female	SMA-female	SMA-female	BNC-female	BNC-female	BNC-female	BNC-female
Material:	gold-plated brass			stainless steel	Al.		
Temperature:	—55°C . . . +110°C			—	—	—	—
Humidity:	95%, Temp. +25°C . . . +55°C			—	—	—	—
Vibration:	sine 10— 55 Hz, amplitude 0.75 mm sine 55—2000 Hz, amplitude 10 g			—	—	—	—
Bump test:	40 g (1000 bumps)			—	—	—	—
Weight:	18 g	18 g	18 g	20 g	100 g	85 g	85 g
Output polarity:	neg.	neg.	—	neg.	neg.	pos.	pos.