

HEROTEK, INC.

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Detectors Models Listed Below in Stock for Immediate Delivery.

Consult factory for more details.

Zero Bias Schottky Diode Detectors

Model	Frequency Range (GHz)	Max VSWR**	Maximum Flatness (+/-dB) **	Low Level Sensitivity (mV / μ W)	Connector Input	Connector Output	Outline
DDS118	1.0 - 18.0	4.5:1	1.0	2.2	--	--	B
DHM020BB	100KHz - 2.0	1.3:1	0.1 (per 100KHz) 0.3 (overall)	1.0	BNC (M))	BNC (F)	BB ³
DHM124AA	.01 - 12.4	1.4:1	0.5	1.0	SMA (M)	SMA (F)	A
DHM185AA	.01 - 18.5	1.4:1	0.5	1.0	SMA (M)	SMA (F)	A
DHM185AB	.01 - 18.5	1.5:1	0.5	1.0	SMA (M)	BNC (F)	AB1 ³
DHM265AA	.01 - 26.5	1.5:1 (to 18.5 GHz) 2:1 (to 26.5 GHz)	0.5 (to 18.5 GHz) 1.0 (to 26.5 GHz)	1.0	SMA (M)	SMA (F)	A
DS1020	1.0 - 2.0	--	0.5	2	--	--	C
DS2040	2.0 - 4.0	--	0.5	2	--	--	C
DS2640	26.0 - 40.0	--	1.5	1	--	--	C1
DS4080	4.0 - 8.0	--	0.5	2	--	--	C
DS8012	8.0 - 12.0	--	0.5	1.8	--	--	B
DS8016	8.0 - 16.0	--	0.6	1.8	--	--	B
DS8018	8.0 - 18.0	--	0.7	1.6	--	--	B
DZ1018	1.0 - 18.0	8.0:1 (Typical)	1.0 (Typical)	1.8	SMA (M)	SMA (F)	B
DZ1026	1.0 - 26.0	8.0:1 (Typical)	1.5 (Typical)	1.6	SMA(M)	SMA(F)	B
DZM040AA	100KHz - 4.0	1.3:1	0.1 (100KHz) 0.3 (overall)	0.5	SMA(M)	SMA(F)	A
DZM040BB	100KHz - 4.0	1.3:1	0.1 (100KHz) 0.3 (overall)	0.5	BNC(M)	BNC(F)	BB ³
DZM124AB	.01 - 12.4	1.2:1 (to 4.5 GHz) 1.3:1 (to 7 GHz) 1.4:1 (to 12.4 GHz)	0.2 (per octave) 0.5 (overall)	0.5	SMA (M)	BNC (F)	AB ³
DZM124NB	.01 - 12.4	1.2:1 (to 4.5 GHz) 1.3:1 (to 7 GHz) 1.4:1 (to 12.4 GHz)	0.2 (per octave) 0.5 (overall)	0.5	Type N (M)	BNC (F)	NB ³

<i>DZM185AA</i>	.01 - 18.5	1.2:1(to 4 GHz) 1.5:1(to 18.5 GHz)	0.2 (per octave to 8 GHz) 0.3 (for 10 MHz to 8 GHz) 0.5 (overall)	0.5	SMA (M)	SMA (M)	A
<i>DZM185AB</i>	.01 - 18.5	1.2:1(to 4 GHz) 1.5:1(to 18.5 GHz)	0.2 (per octave to 8 GHz) 0.3 (for 10 MHz to 8 GHz) 0.5 (overall)	0.5	SMA (M)	BNC (F)	AB1 ³
<i>DZM185AB2</i>	.01 - 18.5	1.2:1(to 4 GHz) 1.5:1(to 18.5 GHz)	0.2 (per octave to 8 GHz) 0.3 (for 10 MHz to 8 GHz) 0.5 (overall)	0.5	SMA (M)	BNC (F)	AB2 ³
<i>DZM185NB</i>	.01 - 18.5	1.2:1(to 4 GHz) 1.5:1(to 18.5 GHz)	0.2 (per octave to 8 GHz) 0.3 (for 10 MHz to 8 GHz) 0.5 (overall)	0.5	Type N (M)	BNC (F)	NB ³
<i>DZR124AA</i>	.01 - 12.4	1.25:1	0.3	0.5	SMA(M)	SMA(F)	A
<i>DZR124AC</i>	.01 - 12.4	1.25:1	0.3	0.5	SMA(M)	SMC(M)	AC2
<i>DZR185AA</i>	.01 - 18.5	1.25:1	0.5	0.5	SMA(M)	SMA(F)	A
<i>DZR265AA</i>	.01 - 26.5	1.3:1 (to 18.5 GHz) 2.0:1 (to 26.5 GHz)	0.5 (to 18.5 GHz) 1.0 (to 26.5 GHz)	0.5	SMA(M)	SMA(F)	A
<i>DZR400KA</i>	.01 - 40	1.3:1 (to 18 GHz) 1.8:1 (to 40 GHz)	0.3 (to 18 GHz) 0.6 (to 26 GHz) 1.0 (to 40 GHz)	0.4	K (M) (2.9mm)	SMA (F)	C1
<i>DZR400KB</i>	.01 - 40	1.3:1 (to 18 GHz) 1.8:1 (to 40 GHz)	0.3 (to 18 GHz) 0.6 (to 26 GHz) 1.0 (to 40 GHz)	0.4	K* (M) (2.9mm)	BNC (F)	KB ³
<i>DZR50024A</i>	.01 - 50	1.3:1 (to 18 GHz) 1.6:1 (to 26 GHz) 1.8:1 (to 40 GHz) 2.0:1 (to 50 GHz)	0.3 (to 18 GHz) 0.6 (to 26 GHz) 0.8 (to 40 GHz) 1.0 (to 50 GHz)	0.5	2.4mm (M)	SMA (F)	24A ³

Note 1: Negative output polarity standard. Add "P" to end of model number for positive output polarity.

Note 2: Matched pairs available at extra charge for frequency response within +/- 0.3 dB below 18.5 GHz and +/- 0.5 dB from 18.5 to 26.5 GHz. Add "M" to end of model number.

Note 3: Consult factory for more details.

Tunnel Diode Detector for Pulse CW Power Monitoring

Model	Freq Range (GHz)	Typ Sensitivity K (mV/mW)	Rise Time (nsec)	Max Input Power (W)	Max VSWR	Connector Input	Connector Output
<i>DTM180AA*</i>	1.0 - 18.0	300	2 (max) 1 (typ)	1	2:1	SMA (M)	SMA (F)
<i>DTM180AB*</i>	1.0 - 18.0	300	2 (max) 1 (typ)	1	2:1	SMA (M)	BNC (F)
<i>DTM180NB*</i>	1.0 - 18.0	300	2 (max) 1 (typ)	1	2:1	Type N (M)	BNC (F)

*Positive output version available in stock. Add P to the suffix

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Tunnel Diode Detector

Model	Freq Range (GHz)	Min Sensitivity K (mV/mW)	Typical TSS (dBm)	Max Flatness (+/- dB)	Typ VSWR	Typ Output Capacitance (pF)	Outline
DT0105	0.1 - 0.5	1000	-51	0.75	2.0:1	200	B
DT0110	0.1 - 1.0	800	-50	0.75	2.0:1	200	B
DT0520	0.5 - 2.0	800	-50	0.7	2.0:1	50	B
DT1018	1.0 - 18.0	700	-50	1.0	3.5:1	20	B
DT1020	1.0 - 2.0	1000	-51	0.5	2.0:1	20	B
DT1040	1.0 - 4.0	800	-50	0.7	2.5:1	20	B
DT1218	12.0 - 18.0	750	-50	0.7	2.5:1	10	B
DT1826	18.0 - 26.0	400	-47	1.0	3.0:1	10	B
DT1840	18.0 - 40.0	300	-46	1.75	4.0:1	10	C1
DT2012	2.0 - 12.0	700	-50	1.2	4.0:1	10	Z1
DT2018	2.0 - 18.0	700	-50	1.0	3.5:1	10	B, Z1
DT2018K	2.0 - 18.0	600	-49	1.5	3:1	10	K
DT2040	2.0 - 4.0	1000	-51	0.5	2.0:1	10	B
DT2080	2.0 - 8.0	800	-50	0.75	3.0:1	10	B
DT2640	26.0 - 40.0	300	-46	1.5	4.0:1	10	C1
DT4080	4.0 - 8.0	900	-51	0.6	2.5:1	10	B
DT6018	6.0 - 18.0	700	-50	0.9	3.0:1	10	B, Z1
DT7011	7.0 - 11.0	800	-50	0.5	2.0:1	10	B
DT8012	8.0 - 12.0	800	-50	0.5	2.5:1	10	B
DT8016	8.0 - 16.0	800	-50	0.7	2.5:1	10	B
DT8018	8.0 - 18.0	750	-50	0.8	3.0:1	10	B
DTA1-1880A	1.0 - 18.0	1000	-80 ²	2	2:1	100**	2a
DTA182544	1.0 - 18.0	10000	-60	1.5	2:1	--	1A, L3
DTL1018	1.0 - 18.0	600	-49 ³	1.5	+27	20	B

*Positive output version available in stock. Add P to the suffix

**NOM DC CURRENT @ +12v (mA)

Note 2: TSS based on 2 MHz video bandwidth and 2 dB video amplifier.

Note 3: TSS based on 2 MHz video bandwidth and 2 dB amplifier NF.

Note 4: Add "K" or "Z1" to the end model number for package style desired.