



Detectors

High Performance Analog Detectors

Typical and Guaranteed Specifications—50 Ω System

Model	Frequency Range GHz	Input Power Range dBm		Power Flatness ±dB		Power Temperature Stability ±dB		Sensitivity Vout @ Pref mV			Sq. Law Dep. dBm	Pulse Response μsec	VSWR Input		DC Volt. ±V	Sup. Cur. no RF ±mA
		Typ.	Min. -55/85C	Typ.	Max. -55/85C	Typ.	Max. -55/85C	Typ.	Min. -55/85C	Pref.			Typ.	Max. -55/85C		
Available in standard 0.250-in. sq., 0.450-in. sq., Surface Mount or TO-8 Packages (depending on model)																
UTD-1000	.01-1.0	-20 to 5	-20 to 5	0.7	1.25	1.0	1.5	120	80	-10			1.5	2.0	+15 only	12
UTD-1001 ^v	.01-1.0	-20 to 5	-20 to 5	0.8	1.25	1.0	1.5	120	80	-10			—	2.0	+15 only	12
PSD-2001-25	.02-2.0	-20 to 10	-15 to 5	0.1	0.3			1000	900	0		2.0	1.5	1.8	15	2
PSD-4001-25	.01-4.0	-35 to 10	-30 to 0	0.3	0.75	0.5	0.75	125	90	-15	-15	3.0	1.5	2.0	15	2
DAC4101	0.01-4.0	-30 to 5	-25 to 0	0.60	0.75	0.25	0.50	120	90	-15	-10	1.5	1.5	1.8	5	2
DAC4103	0.01-4.0	-10 to 25	-5 to 20	0.60	0.75	0.25	0.40	120	90	5	+10	1.5	1.2	1.5	5	2
DAQ6101	0.1-6.0	-30 to 5	-25 to 0	0.50	0.75	0.25	0.50	120	90	-15	-10	1.5	1.5	2.0	5	2
DAQ6103	0.1-6.0	-10 to 25	-5 to 20	0.50	0.75	0.25	0.50	120	90	5	+10	1.5	1.2	1.5	5	2
DAQ6104	0.1-6.0	-25 to 12	-20 to 10	0.75	1.00	0.50	0.75	190	150	-10	-10	0.3	1.5	2.0	5	2
DAQ6116	0.1-6.0	-5 to 25	0 to 20	0.50	0.75	0.40	0.50	180	90	0	N/A	360.0	1.5	2.0	N/A	N/A
PSD-6001-25	1.5-6.0	-35 to 10	-30 to 0	0.3	0.75	0.5	0.75	125	90	-15	-15	3.0	1.5	2.0	15	2
DAS8121	0.5-8.0	-30 to 5	-25 to 0	0.50	0.75	0.40	0.50	140	90	-15	-10	0.02	1.5	2.0	5	9
DAQ10501	0.05-10.0	-30 to 5	-25 to 0	0.75	1.00	0.25	0.50	120	90	-15	-10	1.5	1.5	2.0	5	2
DACP18001*	0.1-18.0	-30 to 5	-25 to 0	0.50	1.00	0.25	0.50	140	100	-15	-10	0.3	1.5	2.0	5	3
DACP20021*	0.5-20.0	-30 to 5	-25 to 0	0.50	1.0	0.25	0.50	140	90	-15	-10	0.02	1.5	2.3	5	9

Current data sheets available on website. * Available only in one-stage CougarPak® ^v Input Impedance greater than 300 ohms.



High Performance Threshold Detectors
Typical and Guaranteed Specifications—50 Ω System

Model	Frequency Range GHz	Input Power Range dBm		Power Flatness ±dB		Power Temperature Stability ±dB		Hysteresis dB	Output Logic	Pulse Response µsec	VSWR Input		Volt. V	Cur. mA
		Typ.	Min. -55/85C	Typ.	Max. -55/85C	Typ.	Max. -55/85C				Typ.	Max. -55/85C		
Available in standard 0.250-in. sq., 0.450-in. sq., Surface Mount or TO-8 Packages (depending on model)														
UTD-2002	.01-2.0	-10 to +10	-10 to +10	0.5	1	1	1.5	0.1	TTL	0.08	1.3	2	15	12
UTD-2004	.01-2.0	-25 to -10	-25 to -10	0.5	1	1.5	1.5	0.7	TTL	300	1.8	2.2	5	2.5
DTC4001	0.01-4.0	-30 to -5	-25 to -5	0.5	0.75	0.25	0.5	0.2	TTL	50	1.5	2	5	2.5
DTCH4003	0.01-4.0	-10 to 20	-5 to 15	0.5	0.75	0.2	0.4	0.2	TTL	50	1.2	1.8	5	3
PSD-6002-25	0.1-6.0	-10 to +10	-10 to +10	0.7	1	1	1.5	0.1	TTL	0.08	1.5	2	15	12
DTQ6001	0.1-6.0	-30 to -5	-25 to -5	0.5	0.75	0.25	0.5	0.2	TTL	50	1.5	2	5	2.5
DTC6002	0.01-6.0	-30 to -5	-25 to -5	0.5	0.75	0.25	0.5	0.2	TTL	50	1.5	2	5	2.5
DTS6014	0.1-6.0	-12 to 12	-10 to 10	0.5	0.75	0.3	0.75	0.3	TTL	0.8	1.5	2	5	2
DTS6015	0.1-6.0	-30 to -5	-25 to -5	0.5	0.75	0.25	0.5	0.2	TTL	50	1.5	2	5	2.5
DTS8003	0.1-8.0	-10 to 15	-5 to 15	0.5	0.75	0.25	0.5	0.2	TTL	50	1.2	1.7	5	1
DTS8031	0.5-8.0	-15 to -2	-12 to -4	0.5	0.75	0.4	0.5	0.4	TTL	0.01	1.5	2	5	7
DTCP18001*	2.0-18.0	-25 to -5	-18 to -5	1	1.5	0.25	0.5	0.5	TTL	50	1.5	2	5	2.5
DTCP18031*	0.5-18.0	-15 to -3	-12 to -5	0.5	0.75	0.25	0.5	0.2	TTL	0.01	1.5	2	5	7
DTCP20231*	0.7-20.0	-15 to -3	-12 to -5	0.125	1.5	0.25	0.5	0.2	TTL	0.01	1.5	2.8	3.5	5

Current data sheets available on website. *Available only in one-stage CougarPak®.