

Detector and Threshold Detector Selection Guide

Model	Description	Frequency Min (GHz)	Frequency Max (GHz)	VSWR (Typ)	Threshold Level Range (dBm)	Reponse Time (Max)	Output	Input Power (Max Operating)	Video Resistance (Typ)	Flatness (dB)	Open Circuit Voltage Sensitivity mV/mW (Min)	Tangential Sensitivity -dBm (Min)	Capacitance pF (Typ)	Pos Supply Voltage (+V)	Pos Supply Current (mA)	Microwave Connectors	Hermetic
CCS30700-21	CCS30700-21 Threshold Detector, Broadband	5	16	3.0:1	-15 to +20dBm	300 µSec	TTL '1' above threshold	0 dBm						5	5	SMA	X
CCS33580	CCS33580 Threshold Detector, Broadband	6	18	3.0:1	-15 to +20dBm	100 nSec	TTL '1' above threshold	10 dBm						15	20	SMA	X
2086 Series	2086 Series Detector Family, Schottky, SMA	1	18				Customer to Specify (+ or -)	200mW CW	700 Ohms	1.25	1500	52	12		50µA	SMA	
7700A-0020 7700A-0021 7700A-0022 7700A-0023	7700A Series Detectors, Tunnel Diode, SMA	0.1	2.0	2.0:1			Customer to Specify (+ or -)	+17dBm	120	120	0.5	0.6	800	100			
		2.0	8.0	2.0:1					100		1.0		800	20			
		8.0	18.0	2.3:1					100		1.5		500	12		SMA	
		2.0	18.0	2.5:1									500	20			
7700T-0020 7700T-0021 7700T-0022 7700T-0023	7700T Series Detectors, Tunnel Diode, SMA	0.1	2.0	2.0:1			Customer to Specify (+ or -)	+17dBm	120		0.5		800	100			
		2.0	8.0	2.3:1					120		0.6		700	20			
		8.0	18.0	3.0:1					100		1.0		600	12		SMA	
		2.0	18.0	3.0:1					100		1.5		500	20			