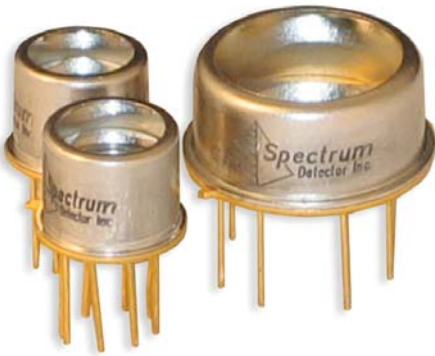


SPC-X and SPC-XH: Discrete Pyroelectric Detectors.



Broad spectral response, sensitive, AC Coupled Thermal Detectors.

We have put together an extensive family of Discrete Pyroelectric Detectors based on rugged Lithium Tantalate (LiTaO3) material, state of the art processing methods and NIST traceable calibration techniques. These devices range in size from 1 mm to 9 mm diameter.

Continued on back ...

- ✓ LiTaO3 material
- ✓ Broadband 0.1 to 100 μ m
- ✓ High current response
- ✓ Fast response time
- ✓ 0.2%/ $^{\circ}$ C temperature coef.
- ✓ 1mm to 9mm diam

Electronic, Mechanical and Performance Specifications for model SPC discrete Pyroelectric Detectors

SPC10 Series: Sensitive, Low Thermal 3db Frequency

	SPC-1		SPC-2		SPC-3		SPC-5		SPC-9		Units	Conditions
	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max		
d, Diameter	1		2		3		5		9		mm	
A, Area	0.78		3.14		7.07		19.63		63.62		mm ²	
Cd, Capacitance	15		22		60		90		280		pF	f=1kHz
Ri, Current Responsivity	1		0.5		0.5		0.25		0.25		μ A/W	at 0.63 μ m
ft, Thermal 3db Frequency	3.5	6	1.6	3	0.8	2	0.5	1	0.25	0.5	Hz	
Pmax, Max. Avg. Power		50		50		50		50		50	mW	
Package		T05		T05		T05		T05		T08		
Price in USD	\$290		\$320		\$350		\$380		\$510			

SPC10H Series: Sensitive, High Average Power

	SPC-1H		SPC-2H		SPC-3H		SPC-5H		SPC-9H		Units	Conditions
	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max		
d, Diameter		1		2		3		5		9	mm	
A, Area		0.78		3.14		7.07		19.63		63.62	mm ²	
Cd, Capacitance	3		12		30		90		280		pF	f=1kHz
Ri, Current Responsivity	0.25		0.25		0.25		0.25		0.25		μ A/W	at 0.63 μ m
ft, Thermal 3db Frequency	5	10	5	10	5	10	5	10	5	10	Hz	
Pmax, Max. Avg. Power		500		500		500		500		500	mW	
Package		T05		T05		T05		T05		T08		
Price in USD	\$260		\$290		\$320		\$350		\$480			

Due to the variable costs of components, published prices are subject to change without notice.

