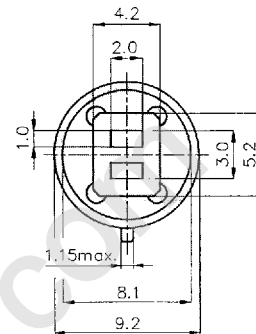
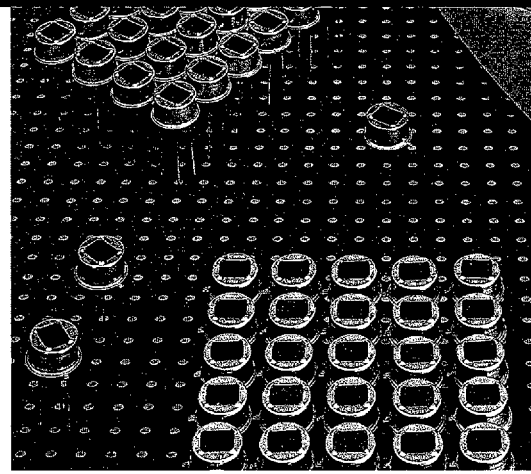


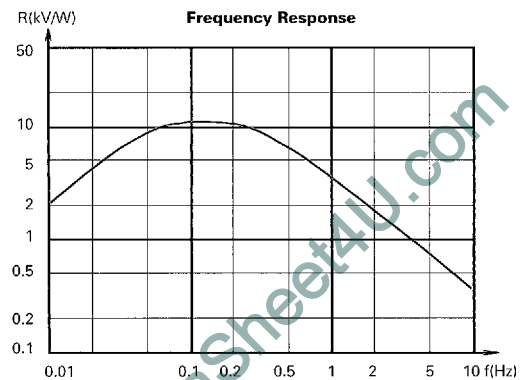
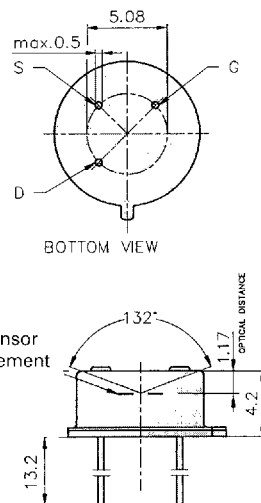
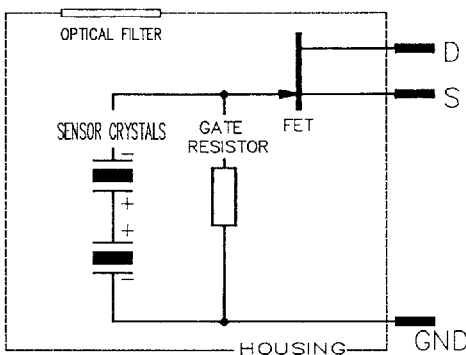
# LHi 978

- High End Dual Element Detector
- High Response, Low Noise
- Specially designed for PIR Alarms

The LHi 978 series is a new detector type, designed specifically for high specification applications in the PIR Intrusion Alarm fields. It is a dual element detector based on a special pyroelectric ceramic material. The elements are connected in series and matched with low noise FET in source follower configuration. A special design of the optical filter and an integrated capacitor helps to prevent interference from RF and white light.



PARAMETER	min	typ	max	units	condition
Element Size		2x1		mm <sup>2</sup>	
Spacing		1		mm	
Responsivity R		3,5		kV/W	1 Hz
Noise		12	40	µVpp	25 °C, 0,3–10 Hz
Offset Voltage	0,2		1,5	V	Rs = 47 kΩ, 25 °C
NEP		7,1	28	10 <sup>-10</sup> W/√Hz	1 Hz, 1 Hz BW
D*	5	20		10 <sup>7</sup> cm √Hz/W	1 Hz, 1 Hz BW
Output Impedance		5	10	kΩ	Rs = 47 kΩ
Operating Voltage	2		15	V	
Drain - Source Voltage	0,5			V	
Unobstructed FOW					
Horizontal		87			
Vertical		87			
Operating Temperature	-40		70	°C	
Storage Temperature	-40		80	°C	



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