Pen Tip Assembly



Omni-directional Horizontal Beam Directivity
Broad Bandwidth
Low Resonance Q
Excellent Impact Resistance
Lightweight
Low Cost



Piezoelectric Film (PVDF): The cylindrical transducer gives a full 360° horizontal directivity and broad bandwidth in a very compact format.

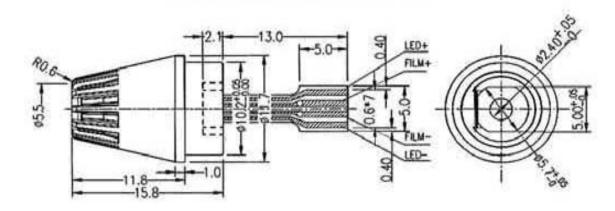


- Ultrasonic Transducer
- Wide Angle GaAs IrLEDs
- Flexible Printed Circuit
- Strip & Plastic Tip Guard Assembly

APPLICATION

Digitizer Pen

mechanical dimensions





Pen Tip Assembly



Transmitter Specifications

Parameter	Typical Value, at TA = 25°C	Units	Notes
Operating Frequency	80 - 90	kHz	
Resonance Q	6 – 9	(none)	-3dB frequencies
Sound Pressure Output	8	mPa/V	@ 30 cm, 16-cycle sine burst re 20 µPa, @ 30 cm, @
Sound Pressure Level	101	dB mV +26dB, 2 nd	400 Vp-p 16-cycle sine burst @ 800 Vp-p decaying sine drive, using
Signal Output	4	positive peak	SR80KHZ-01, @ 30 cm, gain
Horizontal Beam Directivity	360	Degrees	
Vertical Beam Directivity	>90	Degrees	to -6dB level
Capacitance (at resonance)	166	pF	

Absolute Maximum Ratings at TA = 25°C:

Drive Voltage (burst mode)	800	Vp-p
Drive Voltage (continuous)	200	Vp-p
Storage Temperature	-20 to +80	°C
Operating Temperature	+5 to +60	°C

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ordering information

Description	Model #	Part #
Pen Tip Assembly	PT80kHz-01	1007089-1
Shielded receiver Assembly	SR80kHz-01	1007090-1

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