

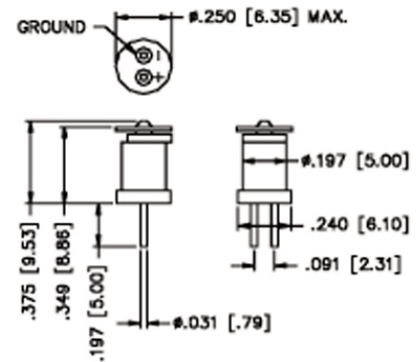
80 kHz Cylindrical Ultrasound Transducer

US80KS-01

Piezoelectric film (PVDF) ultrasound transducers offer unique advantages for air ranging applications. Cylindrical 80kHz PVDF transducers exhibit omnidirectional horizontal beam directivity and broadband characteristics. These characteristics lend unique solutions in many applications such as two-dimensional positioning, digitizer, object detection, and distance measurement. Depending on the applications, resonance frequency and vertical beam directivity can easily be customized by changing the diameter and length of the PVDF cylinder. PVDF ultrasound transducers also have very low resonance "Q" values. This means that the signal rise and decay times are much shorter than conventional ceramic ultrasound transducers. This characteristic is ideal for positioning applications.



Outline Mechanical Dimensions



SPECIFICATIONS

Characteristics	Transmitter Mode	Receiver Mode	Units
PVDF Thickness	30	30	µm
Resonance Frequency	80 - 90	80 - 90	kHz
Resonance Q	4 - 8	6 - 9	
Sound Pressure Output	6		mPa/V
	102		dB
Sensitivity		0.3	mV/Pa
		-90	dB
Horizontal Beam Directivity	360	360	Degree
Vertical Beam Directivity	±25	±25	Degree
Capacitance	200	200	pF
Drive voltage	max 400		Vp
	max 100		
Storage Temperature	-20 to +85	-20 to +85	°C
Operating Temperature	+5 to +60	+5 to +60	°C

Description	Part Number	Low Volume Price (US \$)
80kHz Cylindrical	1005919-1	7.50

Effective: April 1st, 2008

Please contact factory for custom part quotations and volume pricing.

Distribuidor

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