Ultrasonic Transmitter, Sensor & Housing

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Transmitter SQ-40-T-10B



Description

Ultrasonic ceramic transducers transfer acoustical energy to mechanical energy or vice versa. The Standard Open Type Transducer is constructed in a manner which incorporates the fundamental structure of piezoelectric ceramic element of the monomorph type with a conical metal resonator. This Special combination provides high sensitivity (Over – G5dB/V/µBar), wider bandwidth, excellent temperature and humidity durability, stable electrical and mechanical characteristics, and small size.

Applications:

- Remote control devices
- Liquid & bulk sensors
- Level controls
- Intrusion alarms
- Motion detectors
- Auto doors
- Counting devices

Housing QHP10

Specification Table:

Item	SQ-40-T-10B	SQ-40-R-10B	Unit
Transmitting Sensitivity	110	-	SV db
Receiving sensitivity	-	-70	MV db
Resonant Freq. Trans.	40 ±1	-	kHz
Resonant Freq. Rec.	-	40 ±1	kHz
Directional Angle	Approx 60°		٥
Max Input Volts	10	-	Vrms
Impedence	Approx 700	Approx 30k	-
Capacitance	2,000 ± 20%		pF
Pulse Rise Time	0.7	-	ms
Max Input Volts for Pulse Operation	Not recommended for Pulse Operation		V _{P.P}
Temp. Range	-20 to +60		°C
Trans. Selectivity	20 min	-	Qsv
Rec. Selectivity	-	25 min	Qmv

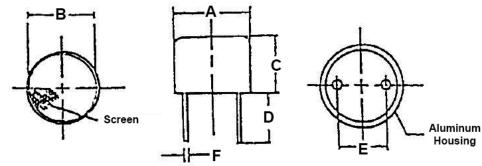
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Dimensions



А	9.8 (0.39)
В	7.7 (0.3)
С	6.6 (0.26)
D	8.5 (0.33)
E	4.8 (0.19)
F	0.5 (0.02)

Dimensions : Millimetres (Inches)

Part Number Table

Description	Part Number
Transmitter, Ultrasonic	SQ-40-T-10B
Receiver, Ultrasonic	SQ-40-R-10B
Housing, Transducer, 10mm, PK2	QHP10

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