

Piezoelectric Ultrasonic Transducer Sensor: ZUS Series



■ Features

1. Compact and light weight
2. High sensitivity and high sound pressure
3. High reliability

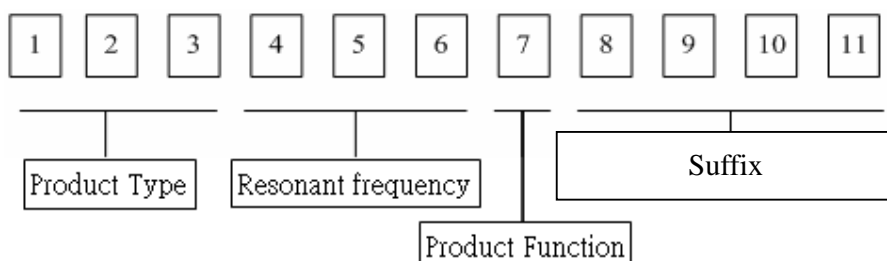
■ Recommended Applications

1. Transmit and reverse sensor applications



■ Part Number Information

☆ ZUS Series:



Example:

ZUS 040 C A001
 (1) (2) (3) (4)

No.	Code Order	Item	Content	Specification
(1)	1~3	Product Type	ZUS	THINKING piezoelectric ultrasonic transducer sensor type
(2)	4~6	Resonant frequency	040	040 = 40 KHz
(3)	7	Product Function	C	T: Transmitter R: Receiver C: Dual use
(4)	8~11	Suffix	A001	Internal Control Code

■ Specifications

Item	Unit	Type
		ZUS040CA001
Center frequency	fc (kHz)	40.0±1.0
Sound pressure level	dB	95
Sensitivity	dB	-55
-6dB Directivity (Horizontal)	deg	110°
-6dB Directivity (Vertical)	deg	60°
Decay time	ms	1.5
Max driving voltage	V	140
Working temperature	°C	-30~85
Case/ color		Aluminum/ black

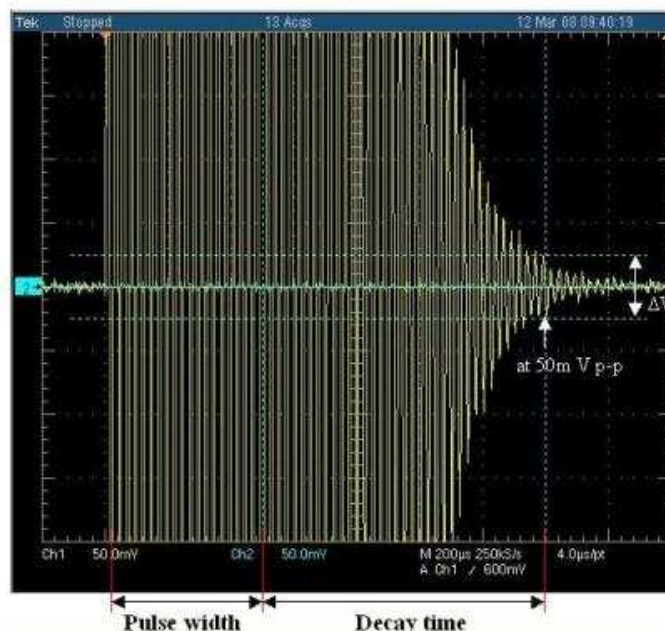
■ Electrical Characteristics

1. Decay time

Test condition:

40KHz sine wave Pulse width: 0.5 msec

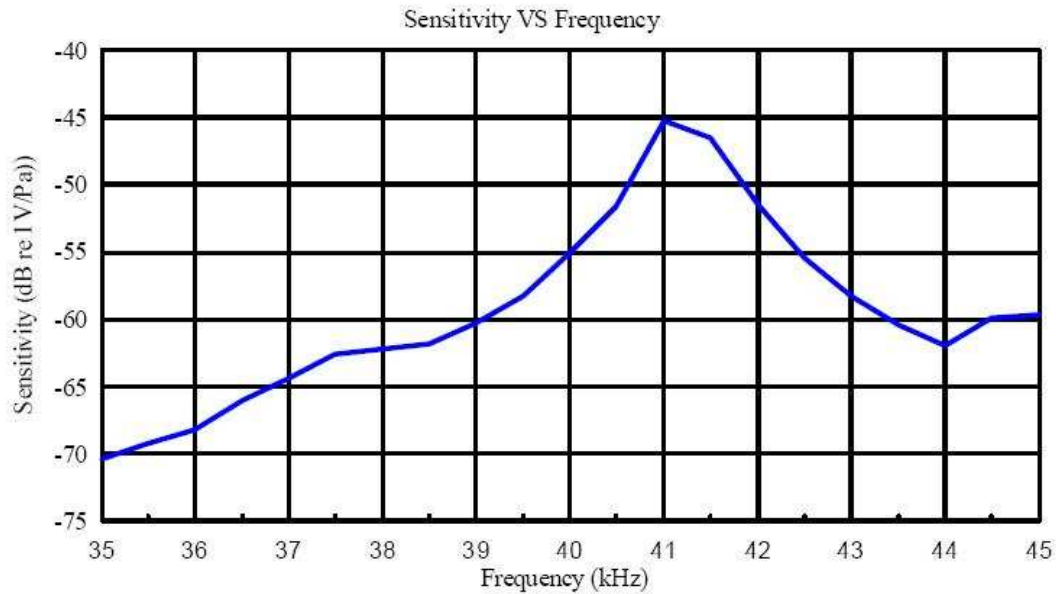
Interval :200 msec Driving voltage : 60 V p-p end voltage : 50 mV p-p



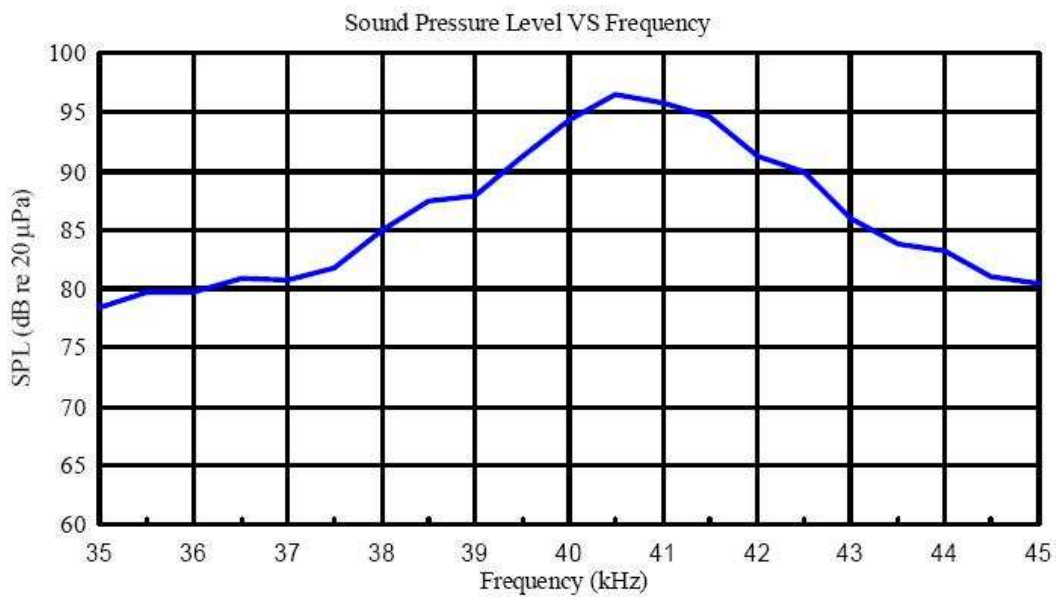
2. Sensitivity / Sound Pressure Level

Contents

(1) Sensitivity



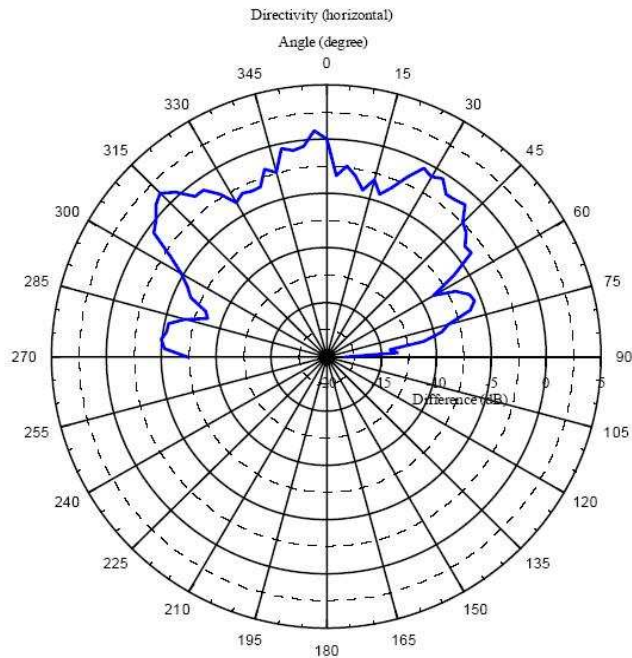
(2) Sound pressure level



3. Directivity (Horizontal / Vertical)

Contents

(1) Horizontal



(2) Vertical

