

Type Code

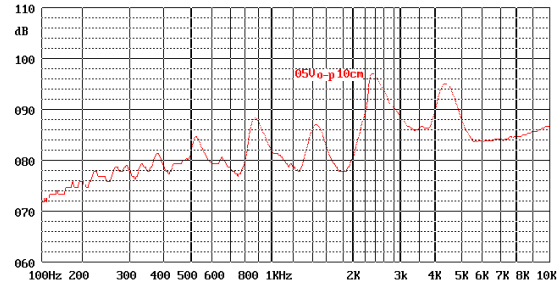
CET12Z05-45-2.4

Chinasound Electro-magnetic Transducer 12mm diameter, type Z(=9mm height, bottom sealed), 5Vo-p rated voltage - 45ohm coil resistance – 2.4KHz resonant frequency

Picture



Frequency Response Curve



Technical Terms

Type	CET12Z05-45-2.4	
Rated Voltage (square wave, 1/2 duty square wave)	(Vo-p)	5
Operating Voltage (square wave, 1/2 duty square wave)	(Vo-p)	4~8
Rated Current at 5Vo-p, fo, 1/2 duty square wave	(mA)	40 max.
Coil Resistance	(ohm)	45+/-3
SPL at 5Vo-p, 10cm, fo, 1/2 duty square wave	(dB)	85dB min.
Resonant Frequency	(Hz)	2400+/-500
Operating Temperature	(°C)	-30~+70
Storage Temperature	(°C)	-40~+85
Weight	(g)	1.5

Reliability

Life Test	Operate the part at 5Vo-p in room temperature continuously for 1000 hours.
Operating Temperature	Driving from -30 °C to +70 °C within 30 minutes for 2 cycles
High Temperature	+85+/-2 °C for 96 hours
Low Temperature	-40+/-2 °C for 96 hours
Humidity	25 °C+/-2 °C, 90-95%RH, 5hr→up to 55 °C+/-2 °C, 90-95%RH, 0.5hr →55 °C+/-2 °C, 90-95%RH, 5hr→down to 25 °C+/-2 °C, 90-95%RH, 0.5hr, 10 cycles
Thermal Shock	-40°C+/-2 °C, 30min→+20 °C, 15min, →+85°C+/-2 °C, 30min→+20 °C, 15min, 5 cycles
Shock	98m/s ² (=10g) shock for each 3 mutually perpendicular directions to each of 3 times by half sine wave
Vibration	1.5mm with 10 to 50Hz of vibration frequency to each of 3 perpendicular direction for 2 hrs
Drop Test	Dropped naturally from 700mm height onto the surface of 10mm thick wooden board. 2 directions - upper and side of the part are to be applied.

All specifications must be satisfied after the test (Recovery: 2 to 4 hrs of recovery under the standard condition after the removal from test chamber).

Dimensions (Unit:mm)

