

Type:Piezoelectric Ceramics

Material:Ceramic

Frequency:5.0±2.0KHZ

Resonant impedance (Ro):≤30Ω

Static capacitance (Cp):2400±15%Pf

Insertion loss:≤0.4%

Mechanical Quality Factor(Qm):900

Piezoelectric Strain Constant(D33):220*10⁻¹² C/N

Density:>7650kg/m³

Size:50*20*6mm Customize

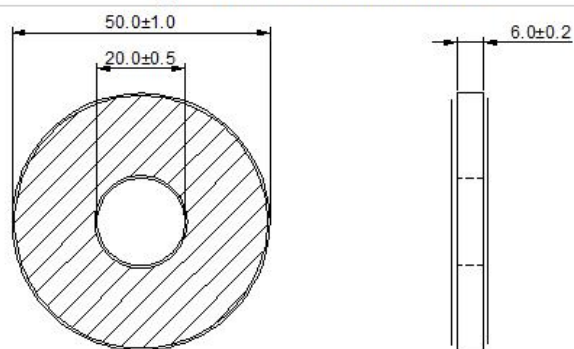
Application:Ultrasonic Welding

Electrical Specifications

Items	Unit	Content
Resonant frequency (Fr)	kHz	35.0±2.0
Resonant impedance (Ro)	Ω	≤30
Static capacitance (Cp)	pF	2400±15%
Insertion loss(tgδ)		≤0.4%
Mechanical Quality Factor(Qm)		900
Piezoelectric Strain Constant(D33)	×10 ⁻¹² C/N	220
Density	kg/m ³	>7650

Items	Requirement
Operating temperature(°C)	-40~+85
Storage temperature(°C)	-40~+85

Appearance and Dimensions



Packing

Quantity per package (pcs)	Dimensions of EPE packaging (cm)	Dimensions of inner box (cm)	Dimensions of package (cm)	Gross weight (Kg)
120	30.5×16.5×8.0	31.2×17.2×8.7	36.7×32.7×20.5	10

TEST

Test Conditions

Parts shall be measured under a condition (Temp.:25°C±5°C, Humidity: 40%~70% R.H.).

Test procedure

Item	Test procedure
Resonant frequency (Fr)	Measuring thickness vibration mode, Impedance analyzer or Network analyzer
Band width(DF)	
Resonant impedance (Rr)	
Static capacitance (C0)	Digital electric bridge or impedance analyzer, 1kHz/1V
Loss(tgδ)	Impedance analyzer
d33	d33 Quasi static measuring instrument

Other dimension in mass production:

Both PZT4 and PZT8 material are available!

Dimension	
OD/mm	ID/mm
10	5
15	6
20	8
20	10
25	10
30	15
35	15
38	15