

Description

Chinasound Piezo Element 35mm diameter, Stainless steel basic disc – 2.8KHz resonant frequency, type A (=without feedback) – Spring terminals, 3.4mm height, type D (with 3 conical springs, protective decal, visible glue fillet), RoHS compliant

◆ RoHS compliant

◆ Reliable Solid State Piezoelectric Technology

Specification

Resonant Frequency	2,800+/-300Hz
Resonant Impedance	1,200 Max. ohm
Capacitance at 100Hz	28,000+/-30% pF at 100Hz 25 °C
Sound Pressure Level	80dB min. at 18Vp-p 10cm 2,048Hz 25 °C
Input Voltage	35Vp-p Max., square wave
Insulated Resistance	5M ohm Min.
Operating Temperature	-20 °C to +60 °C
Storage Temperature	-30 °C to +70 °C

Termination	Description
Construction Materials	Case
	Diaphragm
Weight (Typical)	3 Springs, gold plated
	No
	Stainless Steel Disc 304
	3.7 g

Special Requirement Contact Adhesion

Conical spring contacts shall be mounted such as to withstand a 3N pull force perpendicular and away from the metal disc and a 5N shear force parallel to the metal disc at any direction

Ceramic Adhesion

Before springs soldered: Ceramic disc should be securely adhered to metal disc to guarantee that (1) a glue fillet shall be visible and support the circumference of the ceramic disc; (2) Ceramic may crack but must not break loose of the metal disc or expose shards of broken material exceeding 1mm in width when bent around a metal rod of 25mm diameter

After springs soldered: Ceramic shall be securely adhered to the metal disc such that shock and vibration consistent with ultrasonic welding and an instrument drop test will not cause broken pieces of ceramic to fall off the metal disc.

Decal

A 0.05 – 0.10mm thick plastic decal (color option) backed with 3M Type 467 self adhesive shall be placed over the ceramic disc as shown in drawing below. Placement of Decal shall be within 1mm of center and no part of Decal shall touch any of springs and encroach on the index notch

Reliability

Packing

*High Temperature

*Low Temperature

*Humidity

*Thermal Shock

Trays, springs side up

no function at +70+/-2 °C for 240 hours, function at +60+/-2 °C for 240 hours,

no function at -30+/-2 °C for 240 hours, function at -20+/-2 °C for 240 hours,

+60+/-2 °C, 95+/-5%RH, 240 hours

-20+/-2 °C 0.5 hr → +25+/-2 °C 0.25 hr → +60+/-2 °C 0.5 hr → +25+/-2 °C 0.25 hr.

Temperature Go up or Drop time is 0.5 hr. 3 hrs per 1 cycle. Total is 5 cycles

+50 °C±2 °C, 90~95%RH, 16hrs followed by +30 °C±2 °C, 90~95%RH, 8hrs , 5 cycles

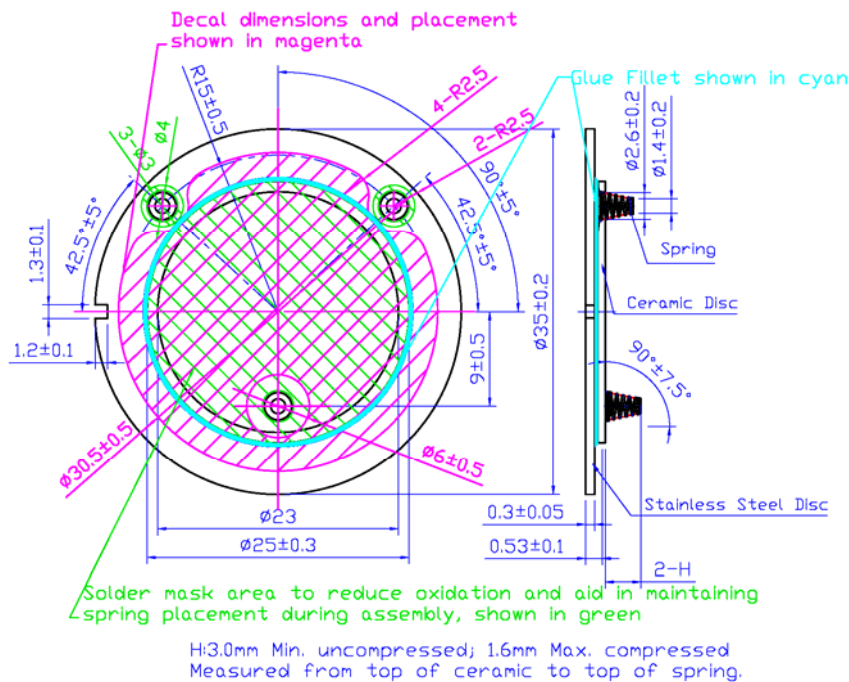
10g, 3 times 11ms by half sine wave shock for each 3 mutually perpendicular axis

For a period of one (1) year from date of manufacture under normal operations

Warranty

*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, Tolerance: +/-0.3mm)



All specifications are subject to change without notice

Composed by: Guo J/100618 Checked by: Gao CL, Gong YS, Zhu YC/100618 Approved by: Wang Z/100618



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Revisions History

Version Number	Description	Name
040117	Original, CPE-35S-2.8A-S3.4C	Guo Jun
040901	Decal is added, CPE-35S-2.8A-S3.4D	Guo Jun
050810	Switched to RoHS complaint, CPE35S-2.8A-S3.4DR	Guo Jun
100618	To add SPL standard	Guo Jun

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