



Description **SGSC-SPT45A12-25R:**

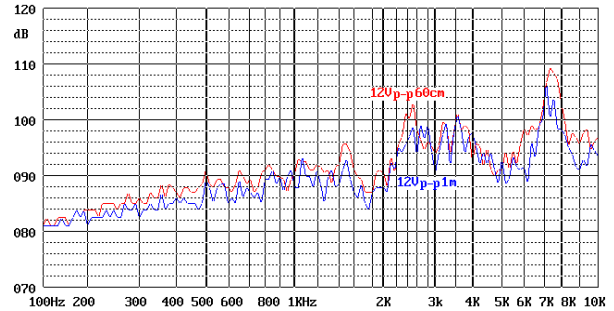
SMD Piezo Transducer 45mm length, type A(=23.2mm height),
12Vp-p rated voltage – 2.5KHz resonant frequency,
lead Free reflowing solderable and RoHS compliance

- RoHS compliance
- Reliable Solid State Piezoelectric Technology
- High Sound Output Level

Picture



Frequency Response Curve



Specification

Rated Voltage	12 Vp-p max.
Operating Voltage	3 ~ 50 Vp-p
Operating Frequency	2500+/-500Hz
Typical Sound Output	95dB min. at 12Vp-p 60cm 2.5KHz 25°C
Rated Current	40mA at 12Vp-p 4.0KHz 25°C.
Capacitance	250,000+/-30% pF at 100Hz 1Vrms
Operating Temperature	-30°C to +85°C
Storage Temperature	-40°C to +90°C without package
Termination	2 soldering pads, Sn plated Brass
Description	Maximum of 9.8N load pull test, applied to each terminal in axial direction for 10 seconds
Termination Strength	
Construction Materials	
Case	Plastic, Nylon PA66
Diaphragm	Brass Disc
Weight (Typical)	11 g
Reliability	
*Life Test	At 12 Vp-p in room temperature, continuously for 1000 hours
*High Temperature	No function at +90+/-2 °C for 240 hours; Function at +85+/-2 °C for 240 hours
*Low Temperature	No function at -40+/-2 °C for 240 hours; Function at -30+/-2 °C for 240 hours
*Humidity	+40+/-2 °C, 95+/-5%RH, 240 hours
*Thermal Shock	-30+/-2 °C 0.5 hr +25+/-2 °C 0.25 hr +85+/-2 °C 0.5 hr +25+/-2 °C 0.25 hr.
*Vibration	Temperature Go up or Drop time is 0.5 hr. 3 hrs per 1 cycle. Total is 5 cycles
*Shock	1.5mm with 10 to 50Hz of vibration frequency to each of 3 perpendicular directions for 2 hours
*Drop Test	980m/s2 (=100g) shock for each mutually perpendicular directions, half sine wave, 3 times each
*Soldering Heat Resistance	Dropped naturally from 750mm height onto the surface of 10mm wooden board. 2 directions – upper and side of the part are applied
**Solderability	Pins are immersed up to 1.5mm from sounder's body in solder bath of 350+/-5°C for 3±0.5 seconds or 260+/-5°C for 10+/-1 seconds
Warranty	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of 350+/-5°C for 3+/-0.5 seconds. For a period of one (1) year from date of manufacture under normal operations
	*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). **90% min. soldering pads shall be with solder.(except the edge of pad)

Dimensions (Unit: mm)

