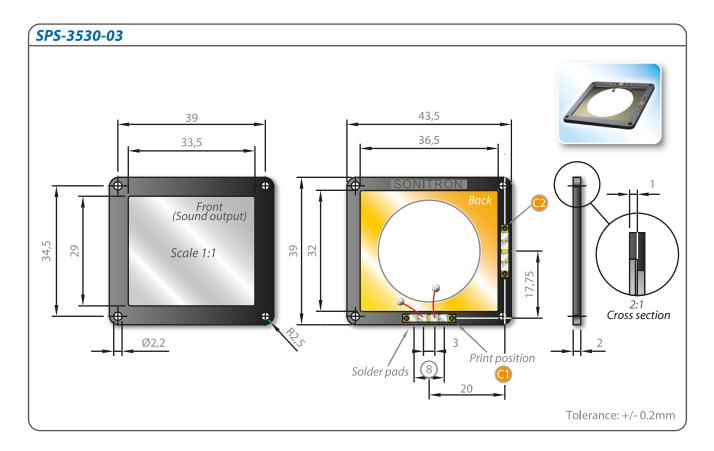


DIMENSIONS (all dimensions are in mm)



Recommended Piezo Audio Amplifiers (see page 104, 105, 106)

Integrated Circuits

Maxim

MAX9788

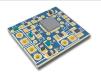
National semiconductor

LM4960

Texas Instruments

TPA2100P1

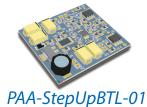
Sonitron production models



PAA-MAX-9788-01



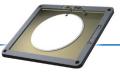
PAA-LM4960SQ-02



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SPS-4640-03





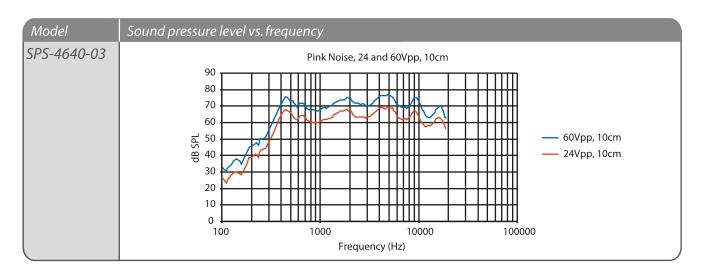
The electronics industry still is a very demanding industry which requires more and more flat and small components. Therefore Sonitron developed this new flat piezoceramic speaker. With a thickness of only 2 mm and dimensions of 43.6x50 mm this small multifunctional speaker/microphone is ideal for use in portable electronic devices (PDA, GPS, MP3,...), notebooks and consumer products.

SPECIFICATIONS

Frequency Range:	400 Hz - 20 kHz
Max SPL @ 1 m, 60 Vpp:	83 dB
(average @ 4-point)	
Distortion (%THD):	≤1.5%
(80dB @ 5 cm, average @ 4-point)	
Sensitivity:	72 dB
(SPL @ 10cm for 1Vrms, average @ 4-point :	
800Hz, 1kHz, 1.5kHz, 2kHz)	
Capacitance (+/- 20%):	225 nF
Impedance @ 1kHz (+/-20%):	680 ohm
Operating Voltage:	5-60 Vpp
Weight:	2.8g
Operating Temperature:	-20°C to 60°C
Storage Temperature:	-40°C to 60°C
Case material:	PBT
Standard color:	Black

speaker mounted in closed box of 40 x 15 x 5cm

FREQUENCY RESPONSE



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