

SPS-3530-03



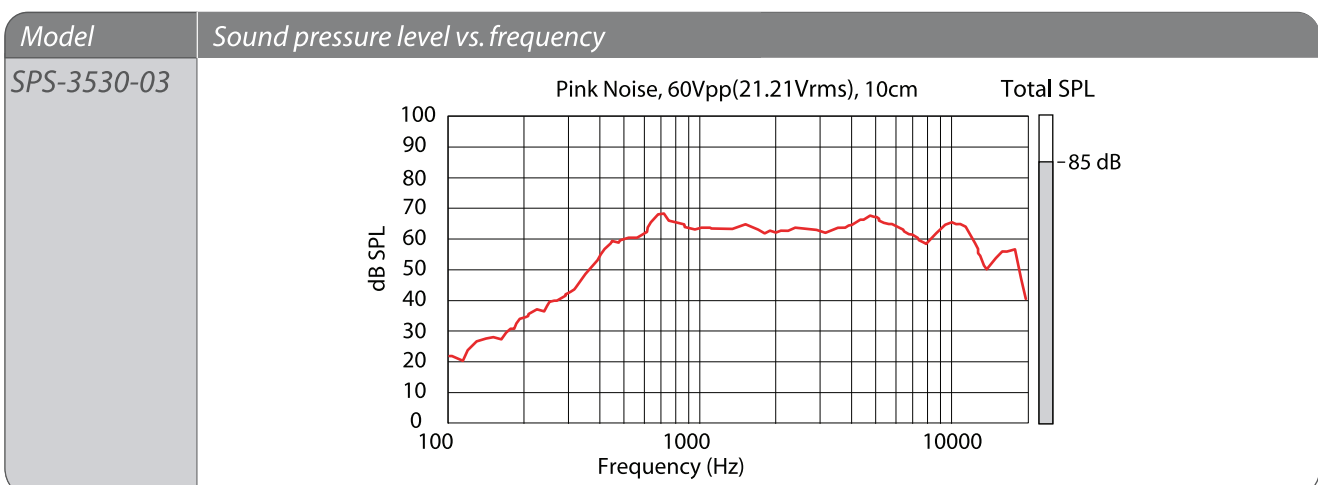
The electronics industry still is a very demanding industry which requires more and more flat and small components. Therefore Sonitron developed this new flat piezoceramic speaker. With a thickness of only 2 mm and dimensions of 39x43.5 mm, this small multifunctional speaker/microphone is ideal for use in portable electronic devices (PDA, GPS, MP3,...), notebooks and consumer products.

SPECIFICATIONS

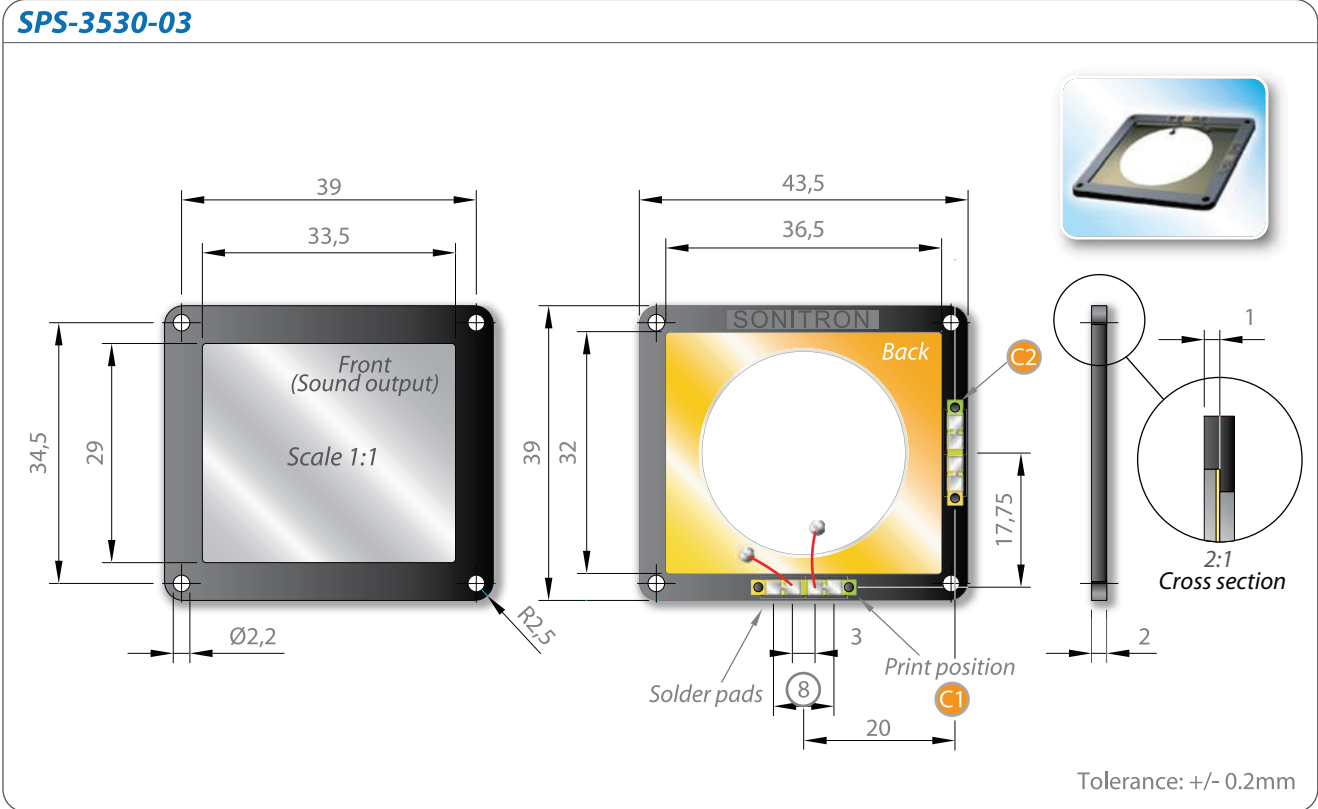
Frequency Range :	700 Hz - 20 kHz
Max SPL @ 1 m, 60 Vpp: (average at 4-point)	81 dB
Distortion (%THD): (80dB @ 5 cm, average @ 4-point)	≤1.5%
Sensitivity: (SPL @ 10cm for 1Vrms, average @ 4-point : 800Hz, 1kHz, 1.5kHz, 2kHz)	73 dB
Capacitance (+/- 20%):	220 nF
Impedance @ 1kHz (+/-20%):	603 ohm
Operating Voltage:	5-60 Vpp
Weight:	2.4g
Operating Temperature:	-20°C to 60°C
Storage Temperature:	-40°C to 60°C
Case material:	PC
Standard color:	Black

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

FREQUENCY RESPONSE



DIMENSIONS (all dimensions are in mm)



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

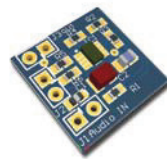
Integrated Circuits

Maxim
MAX9788

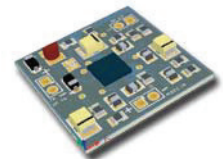
National semiconductor
LM4960

Texas Instruments
TPA2100P1

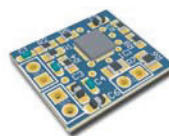
Sonitron production models



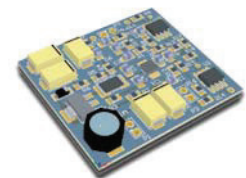
PAA-LT3469-01



PAA-LM4960SQ-02



PAA-MAX-9788-01



PAA-StepUpBTL-01

PRODUCT CODIFICATION

<p>SPS</p> <p>↓</p> <p>Sonitron Polymer/metal Speaker</p>	<p>2220-03 3530-03 4640-03 6555-03 8770-03</p>	<p>C1 or C2</p> <p>↓</p> <p>C1: Position of solder pads C2: Position of solder pads</p>	
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LIST OF AVAILABLE PRODUCT TYPES

SPS-2220-03	SPS-3530-03-C1 SPS-3530-03-C2	SPS-4640-03-C1 SPS-4640-03-C2	SPS-6555-03-C1 SPS-6555-03-C2	SPS-8770-03-C1 SPS-8770-03-C2
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PACKAGING

The SPS-2220-03/3530-03/4640-03/6555-03/8770-03 are packed in trays (245 L x 245 W) and sold in boxes with dimensions of 250 L x 250 W x 125 H.

Number	SPS-2220-03	SPS-3530-03	SPS-4640-03	SPS-6555-03	SPS-8770-03
per tray	81	25	16	9	6
per box	(81x70) 5670	(25x40) 1000	(16x40) 640	(9x40) 360	(6x40) 240

Dimensions of the tray and position of the SPS-speakers 2022-03/3035-03/4640-03/8770-03/SPS-27-01 are illustrated below:

SPS-2220-03	A=1.5 mm B=26 mm C=26 mm
SPS-3530-03	A=3 mm B=47.5 mm C=47.5 mm
SPS-4640-03	A=3 mm B=60 mm C=60 mm
SPS-6555-03	A= 3mm B=68.5mm C=75.5mm
SPS-8770-03	A=3 mm B=78 mm C=120 mm

