

Specifications

SF 228T

Audio/acoustic and electrical

Speaker type	2-way, full-range, in-ceiling speaker
Frequency range.....	50 Hz to 20 kHz, -10 dB, half space
Power capacity	60 W (rms) continuous pink noise (per IEC 60268-5) 120 W (rms) continuous program
Nominal sensitivity.....	89 dB SPL, 1 watt, 1 m, half space
Nominal coverage angle.....	90° conical coverage
Nominal impedance	8 ohms per speaker
Crossover frequency.....	4.5 kHz
Woofers	(1) 8" (203 mm) polypropylene cone with moisture resistant coating
Tweeter.....	(1) 1" (25 mm) silk dome
Input connectors	(1) 10 mm Euro-style captive screw terminal block, 7 pole (for transformer input) (1) 10 mm Euro-style captive screw terminal block, 2 pole (for direct 8 ohm input)
Tap settings	
70 V input	32 W, 16 W, 8 W, 4 W, 2 W, null (bypass 8 ohm direct connection)
100 V input	Null, 32 W, 16 W, 8 W, 4 W, 2 W (bypass 8 ohm direct connection)

General

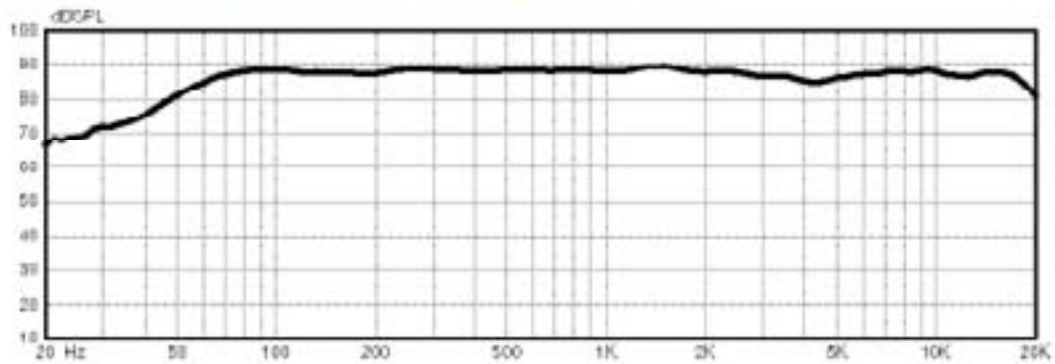
Package	2 speakers (1 pair) with 2' (61 cm) cross bars
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Mounting.....	Drops into 2' x 2' (61 cm x 61 cm) or 2' x 4' (61 cm x 122 cm) suspended tile ceilings
Enclosure type.....	Composite, square, with metal grille
Enclosure outer dimensions.....	5.3" H x 23.75" W x 23.75" L (13.5 cm H x 60.3 cm W x 60.3 cm L)
Product weight.....	Single: 18.5 lbs (8.4 kg)
Shipping weight.....	Pair: 45 lbs (21 kg) with mounting kit
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety	CE, NFPA90A, NFPA70; UL Listed for use in plenum airspaces: meets UL 2043 for heat and smoke release, meets UL 1480 for commercial and professional audio systems
Environmental.....	Complies with the appropriate requirements of RoHS, WEEE
Warranty.....	5 years parts and labor

NOTE: All nominal levels are at $\pm 10\%$.

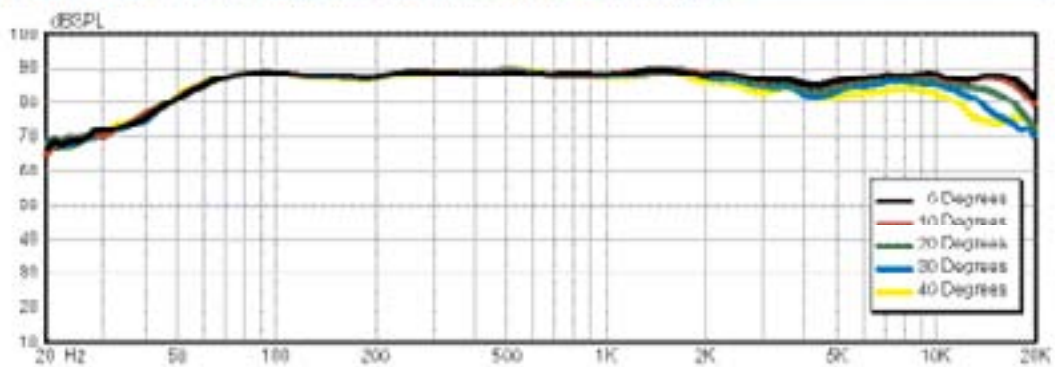
NOTE: Specifications are subject to change without notice.

SF 228T RESPONSE GRAPHS – FREQUENCY AND IMPEDANCE

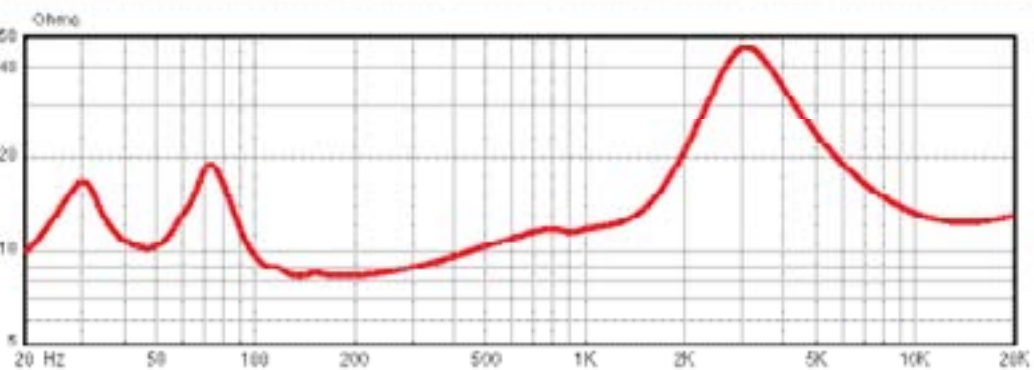
SPL vs. FREQUENCY – 1 WATT @ 1 METER RESPONSE, HALF SPACE (2π)



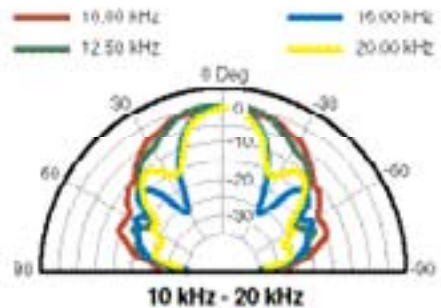
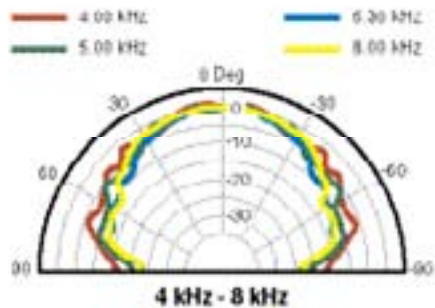
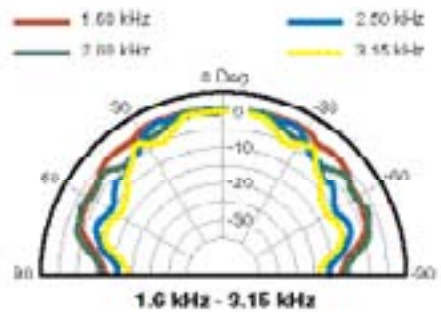
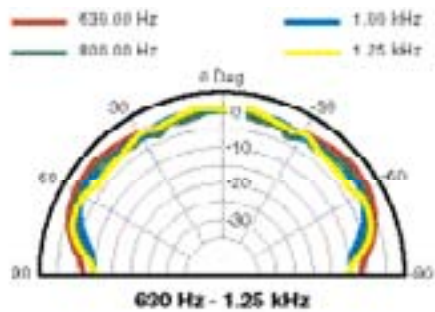
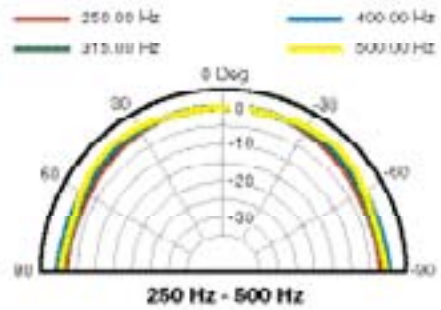
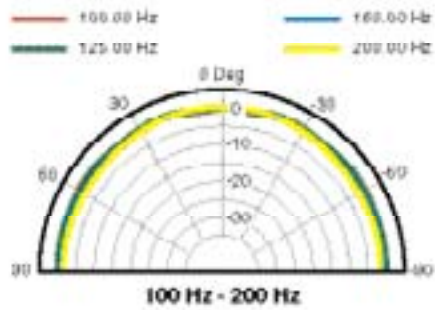
SPL vs. FREQUENCY – HORIZONTAL OFF-AXIS RESPONSE, HALF SPACE (2π)



IMPEDANCE vs. FREQUENCY



SF 228T POLAR GRAPHS – 1/3 OCTAVE, HORIZONTAL



8.0-091112-D4