

Specifications

SF 228T Plus

Audio/acoustic and electrical

Speaker type	2-way, full-range, in-ceiling speaker
Frequency range.....	47 Hz to 22 kHz, -10 dB, half space (per IEC 60268-5)
Frequency response	63 Hz to 12.5 kHz, +/-3 dB, half space
Power capacity	90 W (rms) continuous pink noise (per IEC 60268-5) 180 W (rms) continuous program
Rated maximum input voltage (MIV)	19.95 V (49.8 W at 8 ohms, per AES2-2012)
Maximum SPL	104.9 dB, 1 m (based on MIV) 105.8 dB, 1 m (linear)
Nominal sensitivity.....	89 dB SPL, 1 W, 1 m, half space (per IEC 60268-5, 60 Hz to 20 kHz)
Nominal coverage angle.....	95° conical coverage (1 kHz to 4 kHz)
Nominal impedance.....	8 ohms per speaker
Crossover frequency	2.5 kHz
Drivers	
Woofer	(1) 8" (203 mm) polypropylene cone
Tweeter	(1) 1.1" (28 mm) silk dome
Input connectors.....	(2) splicing connectors, 3-pole, for 1 input and 1 loop-through
Tap settings	
70 V input.....	64 W, 32 W, 16 W, 8 W, off, 8 ohms direct
100 V input.....	Null, 64 W, 32 W, 16 W, off, 8 ohms direct
Overload protection	Full range power limiter protecting the tweeter, woofer and crossover

General

Package	2 speakers (1 pair)
Included accessories	Setup guide, (4) 3-pole splicing connectors, (2) 2-foot (610 mm) 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	Ceiling-mountable with included hardware
Enclosure type	Composite, square, with metal grille
Enclosure outer dimensions	5.41" H x 23.75" W x 23.75" L (137 mm H x 603 mm W x 603 mm L)
Product weight	18.9 lbs (8.6 kg) each
Regulatory Compliance	
Safety	CE, UL 2043, CAN/ULC-S142:16, UL 1480A, NFPA 90A, NFPA 70 UL Listed for use in plenum airspaces: UL 2043 and CAN/ULC-S142:16 listed for heat and smoke release, UL 1480A listed for commercial and professional audio systems
Environmental.....	RoHS, WEEE
Warranty	5 years parts and labor

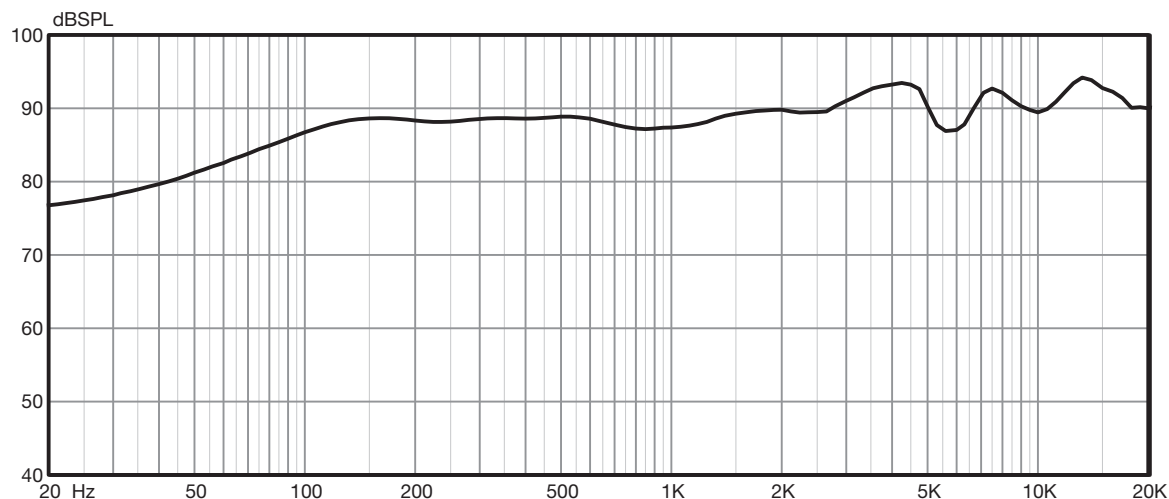
NOTE: All nominal levels are at $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

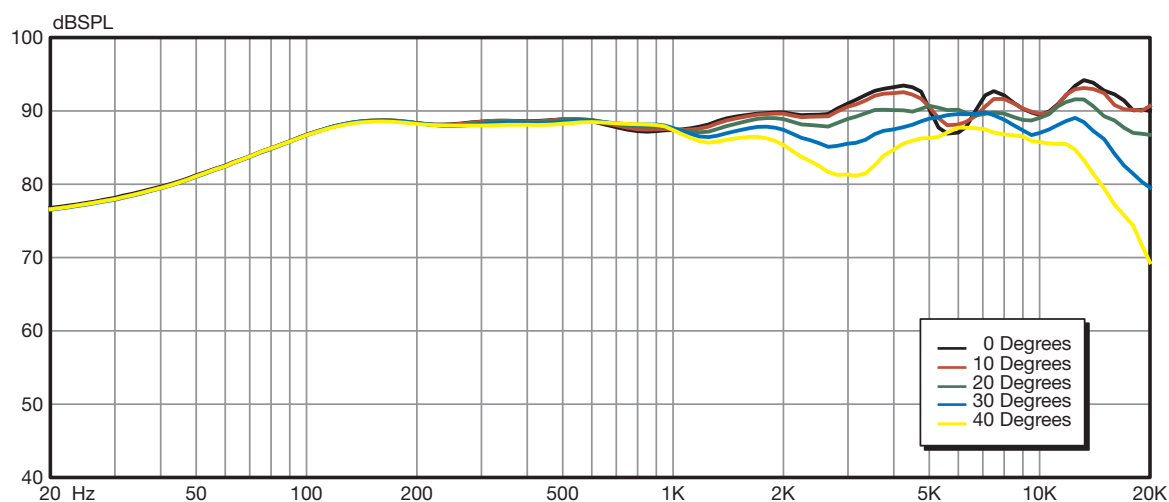
NOTE: Shipping weights and dimensions are available at www.extron.com.

SF 228T Plus RESPONSE GRAPHS – FREQUENCY AND IMPEDANCE

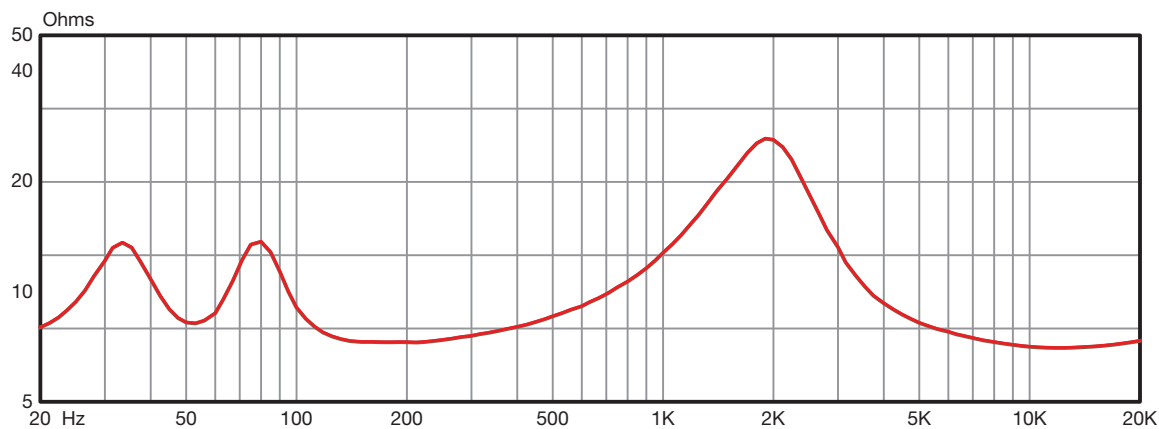
SPL vs. FREQUENCY – 1 WATT @ 1 METER RESPONSE, HALF SPACE (2π)



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



IMPEDANCE vs. FREQUENCY



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

