

SF-I299A

12"-450W WOOFER



KEY FEATURES

450W AES Power Handling
72.5mm(2.8 in) copper voice coil
50–3.5 K Hz response
96 dB SPL



TYPICAL CHARACTERISTICS

Nominal Diameter	–	mm	313
Rated impedance	–	Ω	8
Half space sensitivity (1w@1m)	–	dB SPL	96
Usable freq. range	–	Hz	50–3500
AES Power handling (1)	–	W	450
Maximum Power Handling (2)	–	W	900
Max Sound Pressure Level	SPLmax	dB SPL	101
Magnet Diameter	–	mm	190
Voice Coil Diameter	–	mm	72.5
BL product	BL	N/A	20.9
Moving mass	Mms	kg	0.060

THIELE-SMALL PARAMETERS: TYPICAL (QC LIMITS)

Resonance frequency	Fs	Hz	50(±6)
DC Resistance	Re	Ω	5.5(±0.5)
Mechanical quality factor	Qms	1	4.76
Electrical quality factor	Qes	1	0.33
Total quality factor	Qts	1	0.31
Mechanical suspension compliance	Cms	10 ⁻⁶ .m/N	216
Effective piston area	Sd	m ²	0.054
Equivalent Cas air load	Vas	m ³	65
Max linear excursion	Xmax	± mm	5.5
Linear displacement volume	Vd	10 ⁻³ .m ³	0.297
Reference efficiency	h0	%	3.4
Unity load volume	Vas.Qts ²	10 ⁻³ .m ³	3.7

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	313 mm
Bolt Circle Diameter	295 mm
Baffle Cutout Diameter	283 mm
Depth	141 mm
Net Weight	7.86 kg
Shipping Weight	8.2 kg
Shipping Box	323x323x151 mm

NOTE:

(1) 2 Hours Test According to AES 2–1984 Rev. 2003
(2) Maximum power is defined as 3dB greater than nominal power

ABSOLUTE MAXIMUM RATINGS

Short term max. input voltage	Vmax	V	Le1k:1.22/ Le10k:0.67
Max.excursion before damage	Xdam	± mm	13.5
Ambient operating temperature	Ta	°C	–10 to +50
Storage temperature	–	°C	–20 to +70
Environmental withstanding Q	–	–	Outdoor

