Studio SM

Exceptional efficiency, power handling and frequency coverage from compact dimensions. Primarily for mid-range in compact vocal and studio systems. Extended usable frequency response makes it also suitable for multi-unit PA systems.

Electro Mechanical Specifications

Nominal Chassis Diameter	5 inch/127mm
Impedance	8, 16Ω
Power Rating (watts)	50 (USA 100)
Resonance	95Hz
Usable Frequency Range (-6dB)	900Hz 8kHz
Average Sensitivity (in above range) 1 W/1 m	100dB
Flux Density / Total Flux (Gauss/Maxwells)	14,500 / 75,000
Magnetic Gap Depth	0.250 inch/6.35mm
Coil Winding Length	0.315 inch/8.0mm
Magnet Weight	36 oz
Voice Coil Diameter	1.0 inch/25mm
Max Usable Excursion	0.250 inch/6mm

Thiele & Small Parameters

Resonant Frequency fs	97 Hz
Impedance Re	5.6
Coil Inductnace (mH)	0.41
Qes	0.32
Qms (Litres)	9.20
Qts	0.31
Vas	5.8 Litres
Reference Efficiency (%)	1.7
Displacement Volume (Litres)	0.05 Vd
Cms	5.4
BL Product	5.7 Tesla metres
Mms	4.8 gms
Rms	0.3

Mounting Information

Overall Diameter	6"/1524 mm
Width Across Flats	5.25"/133.35 mm
Flange Thickness	0.270"/6.9 mm
Baffle Hole Diameter, Front Mount	4.63"/117.5 mm
Baffle Hole Diameter, Rear Mount	4.50"/114.3 mm
Gasket Supplied	Front & Rear
Fixing Holes (2mm)/(",mm)	4 x 0.218"/5.5 dia x 5.468/138.8 PCD
Depth	3.38"/86 mm
Weight	5.7 lb/2.46 kg
Recommended Enclosure Volume	0.7 - 1.5 cu ft/2-4 litres
Shipping Weight	5.7 lb/2.6 kg
Packing Carton Dimensions	156 x 102 x 143 mm

Materials of Construction

Coil Former or Bobbin Material	Resin Bonded Glass Fibre
Voice Coil Material	Polyamid-Imide Coated Copper
Magnet	APS Ferrite
Chassis	Die Cast Alluminium
Cone / Cone Edge Termination	Paper / Foam Plastic
Dust Dome	Linen
Connectors	0.125" Tab / Solder
Performance Optimised for:	High Quality, Mid-range usage over a bandiwdth of 900 Hz - 8 KHz in multiway systems

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