

GPA-1575

Written by Administrator

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SPECIFICATIONS	Nominal diameter	: 460mm.15in
Nominal Impedance		: 8 ohm
Program Power		: 500w.
Continuous Power (RMS)		: 300w
Sensitivity (1w/1m)		: 96dB
Frequency range		: 28 – 6KHz
Voice coil diameter		: Dia.75mm
Voice coil length		: 22mm
Magnet dimension		: Dia.180mm x 20mm

Manufacturer: SPE			
Model: GPA 1575			
Nominal Diameter = 381 mm (15 inches)			
Resonance in Free Air f_0	48.45 Hz	Reference Efficiency $\eta(0)$	2.4267 %
Resonance on Baffle f_{b0}	0.45 Hz	Voice Coil Inductance L_e	1.617 mH (1k Hz)
Total Q Q_{ts}	0.52468	L_e	0.67365 mH (10k Hz)
Electrical Q Q_{es}	0.55052	Flux Density B	25287 Tesla
Mechanical Q Q_{ms}	11.179	Length of Wire in Gap L	25287 meters
Equivalent Volume V_{as}	123.2 liters	BL Product BL	16.45 N/Amp
V_{as}	4.3506 cu ft	Effective Moving Mass M_{ms}	89.994 grams
Compliance C_{ms}	0.12 mm/N	Voice Coil Diameter D_{vc}	0.014 in
Mechanical Resistance R_{ms}	262 kg/s	D_{vc}	0.014 in
DC Resistance R_e	5.4377 Ohms	Voice Coil Depth D_{cd}	0.014 mm
Maximum Impedance Z_{max}	115.86 Ohms	Magnetic Gap Depth D_{mg}	0.014 mm
Minimum Impedance Z_{min}	5.4377 Ohms	Voice Coil Material:	
Max Thermal Power P_{th}	5477 Watts	Voice Coil Former:	
Thermal Resistance R_{th}	5477 deg C/W	Voice Coil Layers:	
Max Linear Excursion X_{lmax}	5477 mm, peak	Voice Coil Wire Gauge:	
Max Excursion X_{peak}	5477 mm, peak	Voice Coil Vent:	
Piston Area $S(D)$	0.08553 sq m	Wight Parameters:	K_{ij} = 0.07057
Peak Volume Displ $V(D)$	13273 liters		X_{ij} = 0.53601
Sensitivity SPL = 95.95 dB SPL (1W/1m)			$K(i)$ = 0.039791
			$X(i)$ = 0.60836

