

Model No.: SDF-250F75PR01-06

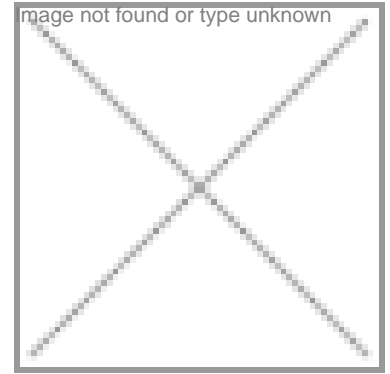
Rev: 1

Product Line: Tymphany

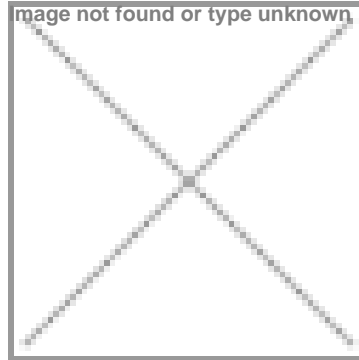
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Product Description

This 10inch 6ohm member of the SDF product family has all the design features suitable for a high performance, high excursion subwoofer. The motor features a strong ferrite magnet with bump T yoke, supporting high excursion, and aluminium shorting rings and pole extenders, lowering and linearizing the inductance of the overhung voice coil. The paper cone is vented under the dust cap, to reduce air compression. The suspension system features a low-creep rubber surround, and a optimized spider, ensuring long-term reliability under high power conditions. The product also features a upgraded die cast basket.



Mechanical Drawing



Specifications

DC Resistance	Revc	Ohms	4.39	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs	
Minimum Impedance	Zmin	Ohms	4.92	7.5%	Moving Mass	Mms	g	103.5
Voice Coil Inductance	Le	mH	1.02		Suspension Compliance	Cms	um/N	218
Resonant Frequency	Fs	Hz	33.5	15%	Effective Cone diameter	D	cm	21.21
Mechanical Q Factor	Qms		11.7		Effective Piston Area	Sd	cm^2	353.3
Electrical Q Factor	Qes	0.48			Effective Volume	Vas	L	38.47
Total Q Factor	Qts		0.46		Motor Force Factor	BL	Tm	14.2
Ratio Fs/Qts	F	Fs/Qts	73.46		Motor Efficiency Factor	β	(T*M^2)/Ohms	45.9
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	88.75	+/- 1.0db	Voice coil former Material	VCfm		TIL
Half Space Sensitivity @1W/1M	db@1W/1M	dB	86.6	+/- 1.0db	Voice coil inner diameter	VCd	mm	75.55
Gap Height	Gh	mm	8		Rated Noise Power	P	W	300
Maximum Linear Excursion	Xmax	mm	12.6		Test Spectrum Bandwidth		20-20kHz	
Ferrofluid Type	FF				Driver Size	Inch	10 in	
Driver Mass	Kg		7.23					

Frequency and Impedance Response

