

Model No.: FSL-1520R02-08
 Product Line: Tymphany

Rev: 1
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Product Description

This 15 inch 8 ohm speaker features a FEA optimized ferrite magnet motor, a 2 inch high-temperature voice coil, and a high strength stamped steel frame. The multi-roll surround and spider have been optimized to reduce distortion over the excursion range of this transducer.



Mechanical Drawing



Specifications

DC Resistance	Revc	Ohms	5.46	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs	
Minimum Impedance	Zmin	Ohms	7.22	7.5%	Moving Mass	Mms	g	64.2
Voice Coil Inductance	Le	mH	0.68		Suspension Compliance	Cms	um/N	216.9
Resonant Frequency	Fs	Hz	42.65	15%	Effective Cone diameter	D	cm	33
Mechanical Q Factor	Qms		6.69		Effective Piston Area	Sd	cm^2	855.3
Electrical Q Factor	Qes	0.69			Effective Volume	Vas	L	222.83
Total Q Factor	Qts	0.63			Motor Force Factor	BL	Tm	11.66
Ratio Fs/Qts	F	Fs/Qts	68.01		Motor Efficiency Factor	β	(T*M^2)/Ohms	24.9
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	95.47	+/- 1.0db	Voice coil former Material	VCfm		KSV
Half Space Sensitivity @1W/1M	db@1W/1M	dB	95	+/- 1.0db	Voice coil inner diameter	VCd	mm	50.5
Gap Height	Gh	mm	8		Rated Noise Power	P	W	200
Maximum Linear Excursion	Xmax	mm	3.3		Test Spectrum Bandwidth		40Hz-400Hz	
Ferrofluid Type	FF				Driver Size	Inch	15 in	
Driver Mass	Kg	3.48						

Frequency and Impedance Response

