

Model No: FSL-0512R01-08
 Product Line: Tymphany

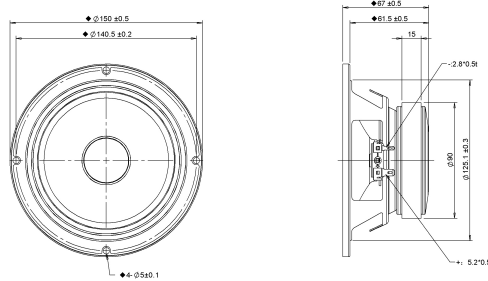
Rev: 1
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Product Description

This 5.25 inch 8 ohm speaker features a FEA optimized ferrite magnet motor, a 1.2 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.



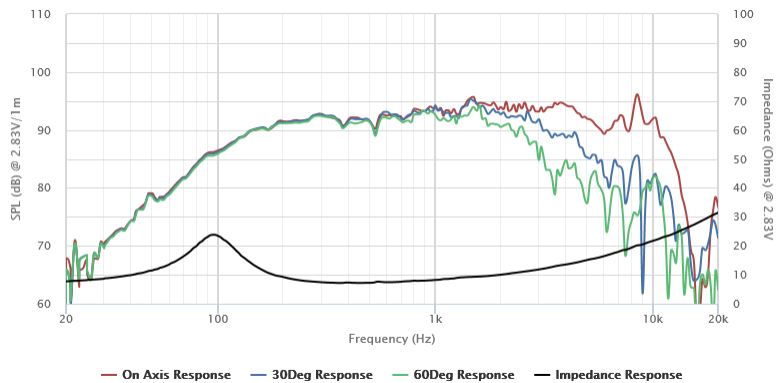
Mechanical Drawing



Specifications

DC Resistance	Revc	Ohms	5.71	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs	
Minimum Impedance	Zmin	Ohms	7.18	7.5%	Moving Mass	Mms	g	6.5
Voice Coil Inductance	Le	mH	0.23		Suspension Compliance	Cms	um/N	333.3
Resonant Frequency	Fs	Hz	107.82	15%	Effective Cone diameter	D	cm	
Mechanical Q Factor	Qms		1.65		Effective Piston Area	Sd	cm^2	105.7
Electrical Q Factor	Qes	0.65			Effective Volume	Vas	L	5.23
Total Q Factor	Qts	0.47			Motor Force Factor	BL	Tm	6.23
Ratio Fs/Qts	F	Fs/Qts	230.87		Motor Efficiency Factor	β	(T*M^2)/Ohms	6.8
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	91.44	+/- 1.0db	Voice coil former Material	VCfm		KSV
Half Space Sensitivity @1W/1M	db@1W/1M	dB	91	+/- 1.0db	Voice coil inner diameter	VCd	mm	30
Gap Height	Gh	mm	4		Rated Noise Power	P	W	90
Maximum Linear Excursion	Xmax	mm	3.9		Test Spectrum Bandwidth		90Hz-900Hz	
Ferrofluid Type	FF		N/A		Transducer Size	Inch	5.25 in	
Transducer Mass	Kg	0.94						

Frequency and Impedance Response



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