

Model No.: FSL-1830R03-08  
 Product Line: Tymphany

Rev: 1  
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## Product Description

This 18 inch 8 ohm speaker features a FEA optimized ferrite magnet motor, a 3 inch high-temperature voice coil, the yoke with vents can cool magnet system, and a high strength stamped steel frame. Kevlar loaded non-pressed paper cone to help dampen and control cone resonance. 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	5.32	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs	
Minimum Impedance	Zmin	Ohms	7.66	7.5%	Moving Mass	Mms	g	156
Voice Coil Inductance	Le	mH	1.64		Suspension Compliance	Cms	um/N	157
Resonant Frequency	Fs	Hz	32.16	15%	Effective Cone diameter	D	cm	39.6
Mechanical Q Factor	Qms		6.31		Effective Piston Area	Sd	cm^2	1231.7
Electrical Q Factor	Qes	0.36			Effective Volume	Vas	L	334.5
Total Q Factor	Qts	0.34			Motor Force Factor	BL	Tm	21.45
Ratio Fs/Qts	F	Fs/Qts	93.49		Motor Efficiency Factor	β	(T*M^2)/Ohms	86.6
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	94.73	+/- 1.0db	Voice coil former Material	VCfm		GSV
Half Space Sensitivity @1W/1M	db@1W/1M	dB	94.5	+/- 1.0db	Voice coil inner diameter	VCd	mm	75.75
Gap Height	Gh	mm	8		Rated Noise Power	P	W	600
Maximum Linear Excursion	Xmax	mm	6		Test Spectrum Bandwidth		40Hz-400Hz	
Ferrofluid Type	FF				Driver Size	Inch	18 in	
Driver Mass	Kg	7.1						

## Frequency and Impedance Response

