

Model No.: STW-350F188PR01-04
 Product Line: Tymphany

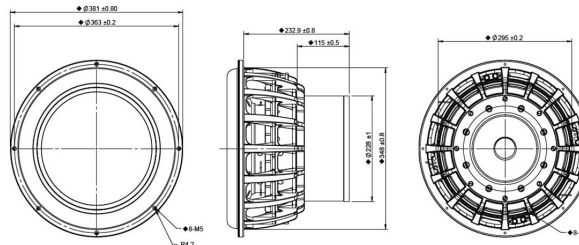
Rev: 1
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Product Description

This 15 inch 4 ohm member of the STW product family has all the design features suitable for a high performance, high excursion subwoofer driver. The motor features a double ferrite magnet motor, supporting high excursion, and aluminium shorting rings and pole extenders, lowering and linearizing the inductance of the overhung voice coil. A 188mm ID voice coil provide very high power handling. The suspension system features a low-creep rubber surround, and a nomex spider, ensuring long-term reliability under high power conditions. The product also features a rigid cast aluminium basket.



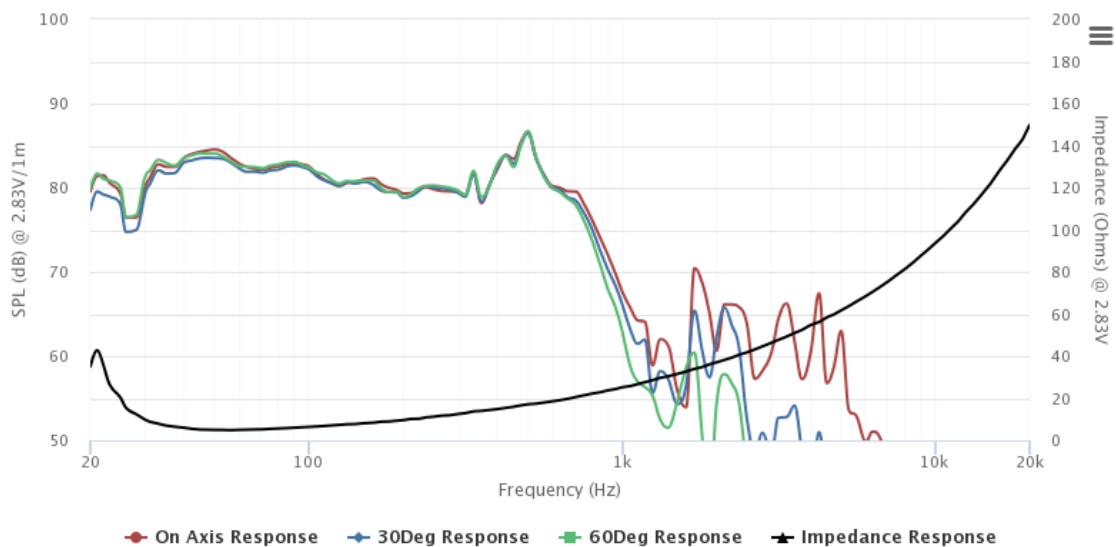
Mechanical Drawing



Specifications

DC Resistance	Revc	Ohms	3.09	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs
Minimum Impedance	Zmin	Ohms	4.86	7.5%	Moving Mass	Mms	g
Voice Coil Inductance	Le	mH	1.25		Suspension Compliance	Cms	um/N
Resonant Frequency	Fs	Hz	23.64	15%	Effective Cone diameter	D	cm
Mechanical Q Factor	Qms		6.26		Effective Piston Area	Sd	cm ²
Electrical Q Factor	Qes	0.5			Effective Volume	Vas	L
Total Q Factor	Qts	0.46			Motor Force Factor	BL	Tm
Ratio Fs/Qts	F	Fs/Qts	51.39		Motor Efficiency Factor	β	(T*M ²)/Ohms
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	83.54	+/- 1.0db	Voice coil former Material	VCfm	GSV
Half Space Sensitivity @1W/1M	db@1W/1M	dB	81.4	+/- 1.0db	Voice coil inner diameter	VCd	mm
Gap Height	Gh	mm	36		Rated Noise Power	P	W
Maximum Linear Excursion	Xmax	mm	10.5		Test Spectrum Bandwidth		20Hz-200Hz
Ferrofluid Type	FF				Driver Size	Inch	15 in
Driver Mass	Kg	25					

Frequency and Impedance Response



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