## **Driver Specification Sheet**



Model No: BMR85DD NA8Y Rev: 4

Product Line: Tymphany Last Update: 2017-04-21 12:42:13

## **Product Description**

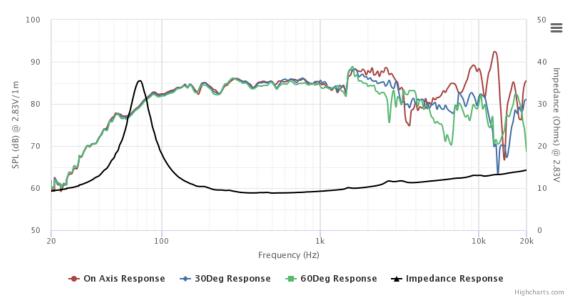
This 80hm 4.5inch full range transducer is a member of the new BMR family. This driver features a powerful neodymium magnet, nestled within an innovative suspension system. The motor contains a copper cap to lower inductance and distortion. The flat cone is honeycomb paper material, with rubber surround, with plastic basket. Is designed to be a high performance full range driver. This family driver is used for shallow applications such as television soundbars and compact music system.



## **Specifications**

DC Resistance	Revc	Ohms	7.57	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs	
Minimum Impedance	Zmin	Ohms	8.81	7.5%	Moving Mass	Mms	g	8.3
Voice Coil Inductance	Le	mH	0.04		Suspension Compliance	Cms	um/N	404.3
Resonant Frequency	Fs	Hz	86.75	15%	Effective Cone diameter	D	cm	9.3
Mechanical Q Factor	Qms		3.47		Effective Piston Area	Sd	cm^2	67.9
Electrical Q Factor	Qes	0.99			Effective Volume	Vas	L	2.62
Total Q Factor	Qts		0.77		Motor Force Factor	BL	Tm	5.9
Ratio Fs/Qts	F	Fs/Qts	112.8		Motor Efficiency Factor	ß	(T*M^2)/Ohms	4.6
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	85.02	+/- 1.0db	Voice coil former Material	VCfm		ASV
Half Space Sensitivity @1W/1M	db@1W/1M	dB	85.4	+/- 1.0db	Voice coil inner diameter	VCd	mm	32
Gap Height	Gh	mm	4		Rated Noise Power	Р	W	20
Maximum Linear Excursion	Xmax	mm	0.7		Test Spectrum Bandwidth	20Hz-12KHz		
Ferrofluid Type	FF				Driver Size	Inch	4 in	
Driver Mass	Kg	0.22						

## **Frequency and Impedance Response**



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