



phl audio

# 1090

6.5"

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## DESCRIPTION

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## MAIN PARAMETERS

Rated Impedance	16 Ohm
Power Handling Capacity	300-6000 Hz
Reference efficiency	(1W@1m) 96 dB SPL
SPL max (continuous)	130 W AES
Usable frequency range	113,1394335 dB SPL
Voice coil Ø	1,5 inch
Environmental withstanding	tropical

EXTENDED



## 1090

## ARCHITECTURE

## TYPICAL CHARACTERISTICS

Rated impedance	Z	<b>16,00</b>	W
Half space sensitivity (1W@1m)	-	<b>96</b>	dB SPL
Usable freq. range	-	<b>300-6000</b>	Hz
Power handling capacity (AES)	-	<b>130</b>	W
Max Sound Pressure Level	SPLmax	<b>113,1394335</b>	dB SPL
Coverage angle	a		°
Min. impedance modulus	Zmin	<b>12.9@640</b>	W@Hz
Voice-coil inductance @ 1kHz	Le <sup>1k</sup>	<b>1,22</b>	mH
Voice-coil inductance @ 10kHz	Le <sup>10k</sup>	<b>0,5</b>	mH
BL product	BL	<b>12,7</b>	N/A
Moving mass	Mms	<b>0,0092</b>	kg

## THIELE-SMALL PARAMETERS: TYPICAL (QC LIMITS)

Resonance frequency	Fs	<b>125(±25)</b>	Hz
DC Resistance	Re	<b>11.6(±1.1)</b>	W
Mechanical quality factor	Qms	<b>6,9</b>	1
Electrical quality factor	Qes	<b>0,52</b>	1
Total quality factor	Qts	<b>0,48</b>	1
Suspension compliance	Cms	<b>180</b>	10-6.m/N
Effective piston area	Sd	<b>0,015</b>	m <sup>2</sup>
Equivalent Cas air load	Vas	<b>0,0056</b>	m <sup>3</sup>
Max linear excursion	Xmax	<b>2</b>	mm
Linear displacement volume	Vd	<b>0,03</b>	10-3.m <sup>3</sup>
Reference efficiency	h <sup>0</sup>	<b>2</b>	%
Unity load volume	Vas.Qts <sup>2</sup>	<b>1,3</b>	10-3.m <sup>3</sup>

## ABSOLUTE MAXIMUM RATINGS

Short term max. input voltage	Vmax	<b>90</b>	V
Max.excursion before damage	Xdam	<b>4</b>	±mm
Lowest rec. X-over frequency	-		Hz
Ambient operating temperature	Ta	<b>-10 to +50</b>	°C
Storage temperature	-	<b>-20 to +70</b>	°C
Environmental withstanding	-	<b>tropical</b>	-

## APPLICATION INFORMATION

Air volume occupied by the driver	-	<b>0,46</b>	10-3.m <sup>3</sup>
Speaker net mass	-	<b>2,15</b>	kg
Rec. 2 <sup>nd</sup> order passive X-over	C/L		mF/mH
Recommended reflex box	Vb/Fb	<b>3 L sealed</b>	Lts/Hz
Electrical connexion			

