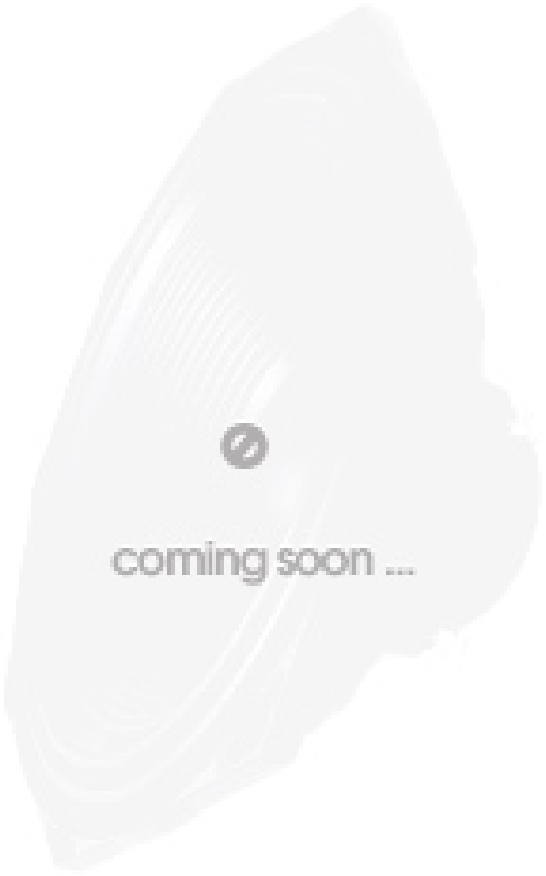
phl audio

6121

15" C Fe Cx 1"



DESCRIPTION

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MAIN PARAMETERS

Rated Impedance	**8 Ohm**
Power Handling Capacity	**35-1000 Hz**
Reference efficiency	**(1W@1m) 97 dB SPL**
SPL max (continuous)	**800 W AES**
Usable frequency range	**122 dB SPL**
Voice coil Ø	**2 inch**
Environmental withstanding	**Outdoor +**

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ARCHITECTURE

TYPICAL CHARACTERISTICS

Rated impedance	Z	**8,00**	W
Half space sensitivity (1W@1m)	-	**97**	dB SPL
Usable freq. range	-	**35-1000**	Hz
Power handling capacity (AES)	-	**800**	W
Max Sound Pressure Level	SPLmax	**122**	dB SPL
Coverage angle	a		°
Min. impedance modulus	Zmin	**7.1@220**	W@Hz
Voice-coil inductance @ 1kHz	Le^{1k}	**1,79**	mH
Voice-coil inductance @ 10kHz	Le^{10k}	**0,87**	mH
BL product	BL	**26,6**	N/A
Moving mass	Mms	**0,156**	kg

THIELE-SMALL PARAMETERS: TYPICAL (QC LIMITS)

Resonance frequency	Fs	**37(±5)**	Hz
DC Resistance	Re	**5.5(±0.5)**	W
Mechanical quality factor	Qms	**4,5**	1
Electrical quality factor	Qes	**0,29**	1
Total quality factor	Qts	**0,27**	1
Suspension compliance	Cms	**116**	10-6.m/N
Effective piston area	Sd	**0,081**	m^2
Equivalent Cas air load	Vas	**0,108**	m^3
Max linear excursion	Xmax	**8**	mm
Linear displacement volume	Vd	**0,648**	10-3.m^3
Reference efficiency	h^0	**1,9**	%
Unity load volume	$Vas.Qts^2$	**7,9**	10-3.m^3

ABSOLUTE MAXIMUM RATINGS

Short term max. input voltage	Vmax	**150**	V
Max.excursion before damage	Xdam	**14**	±mm
Lowest rec. X-over frequency	-		Hz
Ambient operating temperature	Ta	**-10 to +50**	°C
Storage temperature	-	**-20 to +70**	°C
Environemental withstanding	-	**Outdoor +**	-

APPLICATION INFORMATION

Air volume occupied by the driver	-	**4,9**	10-3.m3
Speaker net mass	-	**11**	kg
Rec. 2nd order passive X-over	C/L		mF/mH
Recommended reflex box	Vb/Fb	**65L / 42 Hz**	Lts/Hz
Electrical connexion			