

LOUDSPEAKER TECHNICAL BRIEF

Transducer reference	
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Overview

Brand name	
Targeted market (HiFi, Monitoring, PA, Car...)	
Targeted release date	
Products Line-up (Yes / No)	
Targeted PO quantity per year	
Targeted price per unit [€ - without VAT - EXW]	
Budget for development (Engineering / Tooling)	
Exclusive property (Yes / No)	

Loudspeaker description

	Target	Kartesian feedback
Loudspeaker type (Woofer, Subwoofer, Midrange, ...)		
Diameter (Frame OD [mm])		
Nominal impedance [Ω]		
Enclosure type (Sealed – Vented – Passive radiator, ...)		
Useful bandwidth (on axe, -3dB [Hz])		
Power handling (standard AES:2012 [W])		

T&S

Parameter	Unit	Target value	Tolerance	Kartesian feedback
Fs	[Hz]			
Mms	[g]			
Bl	[N/A]			
Re	[Ω]			
Qms	[%]			
Qts	[%]			
SPL	[dB/2,83V/1m]			

Non-linearity

	Target value	Kartesian feedback
Bl(X) nominal value à 80% [+/-mm]		
Kms(X) nominal value à 50% [+/-mm]		
Le(X) nominal value à 80% [+/-mm]		

Frequency response

Cone break-up minimal frequency [Hz]	
Cone break-up maximal amplitude [dB]	

Construction (To be filed only if you need specific material)

Part name	Material required	Alternative	Kartesian feedback
Frame			
Cone			
Dust cap			
Surround			
Voice coil former / wire			
Spider			
Pole piece			
Magnet			
Terminal			

Template edition: 4.4	Document type
Author: Clément Lambert	Project brief (loudspeaker)