

# SD-12EL Low Frequency Transducer

# SD-Series

## Heavy Duty



### General Specifications

<b>Nominal Diameter</b>	305	mm	12	Inch
<b>Rated Impedance</b>	8	ohm		
<b>Operating Bandwidth</b>	45	Hz	- 800	Hz
<b>Power Handling Capacity</b>	600	W (rms)		
<b>Sensitivity 2.83 V, 1M</b>	91	dB		
<b>Effective Piston Diameter</b>	260	mm	10.20	Inch
<b>Voice Coil Diameter</b>	114.30	mm	4.5	Inch

### Thiele - Small Parameters

<b>Resonance Frequency</b>	Fs	59.6	Hz
<b>DC Resistance</b>	Re	6.6	ohm
<b>Mechanical Q Factor</b>	Qms	5.094	
<b>Electrical Q Factor</b>	Qes	0.632	
<b>Total Q Factor</b>	Qts	0.562	
<b>BL Factor</b>	BL	20.47	TM
<b>Effective Moving Mass</b>	Mms	107.06	gr
<b>Equivalent Cas air load</b>	Vas	26.64	liters
<b>Effettive piston area</b>	Sd	0.0530	m <sup>2</sup>
<b>Voice - coil inductance @ 1KHz</b>	Le	0.72	mH
<b>Half-space efficiency</b>	Eff	1.86	%
<b>Airgap Height</b>	Hag	12.0	mm
<b>Voice coil Height</b>	Hvc	25.0	mm
<b>Voice Coil Over-Hung</b>	Xmax	6.5	mm

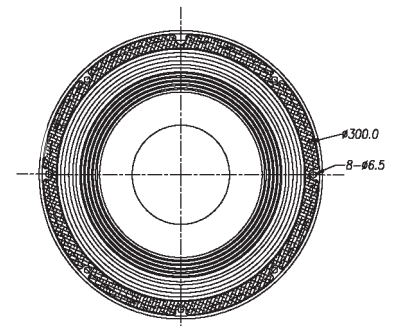
### Physical Information

**Basket**  
**Magnet type,size ODxDxH (mm)**  
**Voice coil Former**

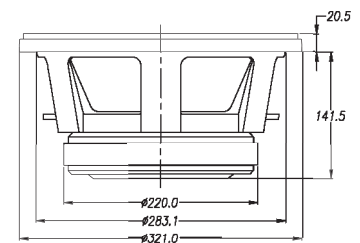
### Voice coil Material

**Cone Material**  
**Surround**  
**Dust Cap**  
**Packing Quantity**  
**Unit Weight /piece**  
**Gross Weight / piece**  
**Packing Dimension WxLxH (mm)**

Die Cast Aluminum  
 220X 127 X 25 Ferrite 111.7 oz.  
 Glass Fiber Bobbin (Ployimide)  
 High Temp 400°C  
 Aluminum Wire (inside & outside)  
 High Temp 300°C  
 Pulp Paper  
 Treated Cloth  
 Paper  
 1 Piece / Pack  
 11.5Kg (25.3Lb)  
 12.6Kg (27.7Lb)  
 355 X 355 X 210  
 14in X 14in x 8.2in  
 0.93 Cu.Ft.



TOP VIEW



SIDE VIEW

