

# SD-18EL Low Frequency Transducer

# SD-Series

## Heavy Duty



### General Specifications

<b>Nominal Diameter</b>	460	mm	18	Inch
<b>Rated Impedance</b>	8	ohm		
<b>Operating Bandwidth</b>	20	Hz	- 400	Hz
<b>Power Handling Capacity</b>	700	W (rms)		
<b>Sensitivity 2.83 V, 1M</b>	98	dB		
<b>Effective Piston Diameter</b>	394	mm	15.5	Inch
<b>Voice Coil Diameter</b>	126.00	mm	5	Inch

### Thiele - Small Parameters

<b>Resonance Frequency</b>	Fs	35.9	Hz
<b>DC Resistance</b>	Re	5.5	ohm
<b>Mechanical Q Factor</b>	Qms	6.065	
<b>Electrical Q Factor</b>	Qes	0.292	
<b>Total Q Factor</b>	Qts	0.278	
<b>BL Factor</b>	BL	26.50	TM
<b>Effective Moving Mass</b>	Mms	164.84	gr
<b>Equivalent Cas air load</b>	Vas	253.41	liters
<b>Effettive piston area</b>	Sd	0.1220	m <sup>2</sup>
<b>Voice - coil inductance @ 1KHz</b>	Le	0.77	mH
<b>Half-space efficiency</b>	Eff	3.90	%
<b>Airgap Height</b>	Hag	12.0	mm
<b>Voice coil Height</b>	Hvc	24.5	mm
<b>Voice Coil Over-Hung</b>	Xmax	6.3	mm

### Physical Information

**Basket**  
**Magnet type,size ODxIDxH (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  
 275 X 150 X 25 Ferrite 183.9 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  
 19.02Kg (41.84Lb)  
 21.12Kg (46.46Lb)  
 505 X 505 X 260  
 19.8in X 19.8in x 10.23  
 2.34 Cu.Ft.

