

# IMF-SERIES

## HP-18W (LOW FREQUENCY TRANSDUCER)

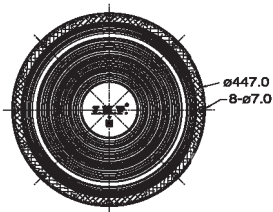
### GENERAL SPECIFICATIONS

Power Rating	: 400 ~ 800	Watts
Nominal Chassis Diameter	: 460	mm (18 in)
Nominal Impedance	: 4~8	ohm
Sensitivity (1w/1m)	: 98	dB
Magnet Weight	: 2.56	Kg (90.31 oz)
Resonant Frequency	Fs	: 30 Hz
Impedance	Re	: 6 ohm
Electromagnetic Q	Qes	: 0.33
Mechanical Q	Qms	: 8.19
Total Q	Qts	: 0.32
Compliance Equivalent Volume	VAS	: 319.63 Liters
Surface Area of Cone	Sd	: 1164 cm <sup>2</sup>
Reference Efficiency	o	: 2.71 %
Voice Coil Overhang	Xmax	: 2 mm
Diaphragm Mass inc Airload	Mms	: 160.09 Gram
Bl Product	BL	: 23.99 TM
Coil Inductance	Le	: 1.49 mH
Gross Weight	10.9 Kg (23.98Lb)	
Packing Dimension WxLxH (mm)	485 X 485 X 245	
	19.0in X 19.0in X 9.6in (2.02 Cu.Ft.)	

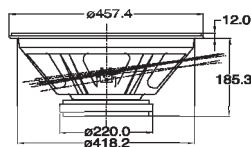


### MATERIALS OF CONSTRUCTION

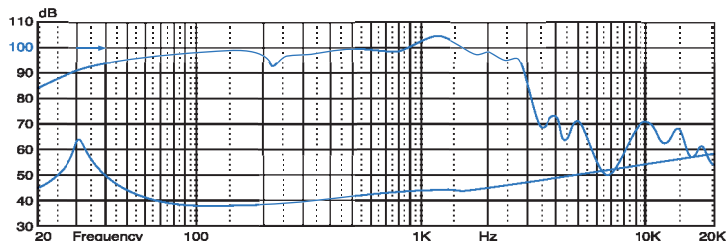
APS ferrite magnet. Pressed steel chassis. Paper cone.  
Plasticised cloth (linen) cone edge. Solid composition paper dust cap.  
3" round copper clad aluminium wire voice coil, Kapton former,



TOP VIEW



SIDE VIEW



## HP-15S (MID & BASS TRANSDUCER)

### GENERAL SPECIFICATIONS

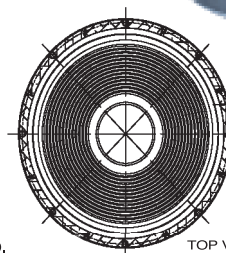
Nominal Diameter	: 380	mm (15in)
Rated Impedance	: 8	ohm
Operating Bandwidth	: 40 Hz - 4.5kHz	
Power Handling Capacity	: 400	Watts
Sensitivity 2.83 V, 1M	: 98	dB
Effective Piston Diameter	: 335	mm 13.2 Inch
Voice Coil Diameter	: 63.70	mm 2.50 Inch

### THIELE - SMALL PARAMETERS

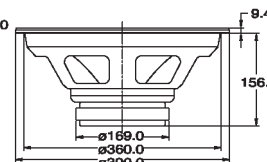
Resonance Frequency	Fs	: 32.4 Hz
DC Resistance	Re	: 5.5 ohm
Mechanical Q Factor	Qms	: 5.334
Electrical Q Factor	Qes	: 0.586
Total Q Factor	Qts	: 0.528
BL Factor	BL	: 13.37 TM
Effective Moving Mass	Mms	: 93.46 gr
Equivalent C as air load	Vas	: 284.05 Liters
Effective piston area	Sd	: 0.0880 m <sup>2</sup>
Voice - coil inductance @ 1KHz	Le	: 0.36 mH
Half-space efficiency	Eff	: 1.60 %
Airgap Height	Hag	: 10.0 mm
Voice coil Height	Hvc	: 15.0 mm
Voice Coil Over-Hung	X max	: 2.5 mm

### PHYSICAL INFORMATION

Basket	: Black Stamp Steel
Magnet Type	: Ferrite 58.6 oz
Size ODxDxH (mm)	: 169 X 86 X 20
Voice coil Former	: Fiber Glass (Polyimide) High Temp. 400°C
Voice coil Material	: Copper Clad Aluminium Wire High Temp. 300°C
Cone Material	: Pulp Paper
Surround	: Coated Cloth
Spider	: Cotton
Dust Cap	: Aluminium
Packing Quantity	: 1 Piece / Pack
Net Weight/Piece	: 5.82Kg (12.80Lb)
Gross Weight/Piece	: 6.65 Kg (14.63Lb)
Packing Dimension WxLxH (mm)	: 405 X 405 X 210
	16in X 16in X 8.2in (1.21 Cu.Ft.)



TOP VIEW



SIDE VIEW

