FW168HR

Features

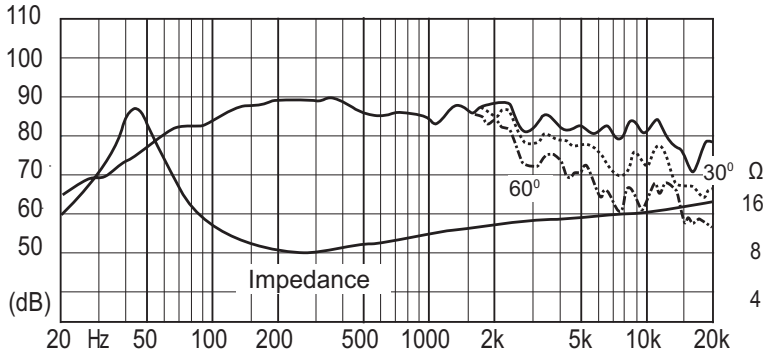
- ø145mm large ferrite magnet and 8mm top plate are employed. Besides, the copper cap is adapted onto the pole piece to reduce the magnetostriction.
- HR shape cone diaphragm is employed to realize the weight saving and stiffness property.
- The state-of-the-art hybrid material is offered to the diaphragm. Its ideal internal loss and stiffness bring the propagation velocity similar to the near-metal diaphragm.
- UDR tangential surround & spider are equipped to realize the less anti-resonance and superior amplitude characteristic.
- The foamed rubber is chosen for the surround material. It has the lower density, lighter weight and higher internal loss characteristic than the conventional rubber and the foamed rubber surround has the low young's modulus and less eigentone.

Specifications & Thiele/Small Parameters

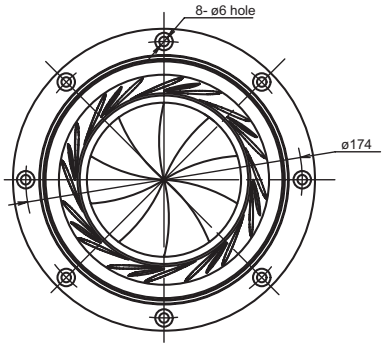
Size	:	160	mm /	6.5 in
Voice Coil Diameter	:	35	mm /	1.37 in
Cast / Stamped	:	Cast		
Impedance	:	8	Ω	
Reproduction Frequency Response	:fs -	10	kHz	
Sound Pressure Level	:	88	dB/W(m)	
Rated Input	:	35	W	
Music Power	:	100	W	
Magnet Material	:	Ferrite		
Magnet Weight	:	1,090	g /	2.40 lb
Net Weight		3,640	g /	8.02 lb

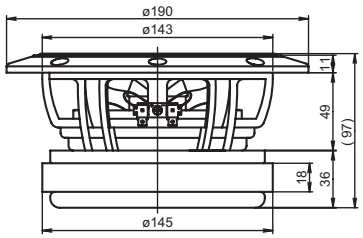
a :	60	mm
Sd :	0.011	m^2
Zn :	8	Ω
Fs :	45	Hz
Re :	7.1	Ω
Le :	0.07	mH
Qms :	3.25	
Qes :	0.38	
Qts :	0.35	
Mms :	15.7	g
BL :	8.98	Telsa/m
Vas :	15.1	L
Xmax :	2.65	mm
Eff/η0 :	0.33	%
Cms :	0.83	mm/N
EBP :	118.4	

Frequency Response / Impedance



Dimensions & Mounting Information

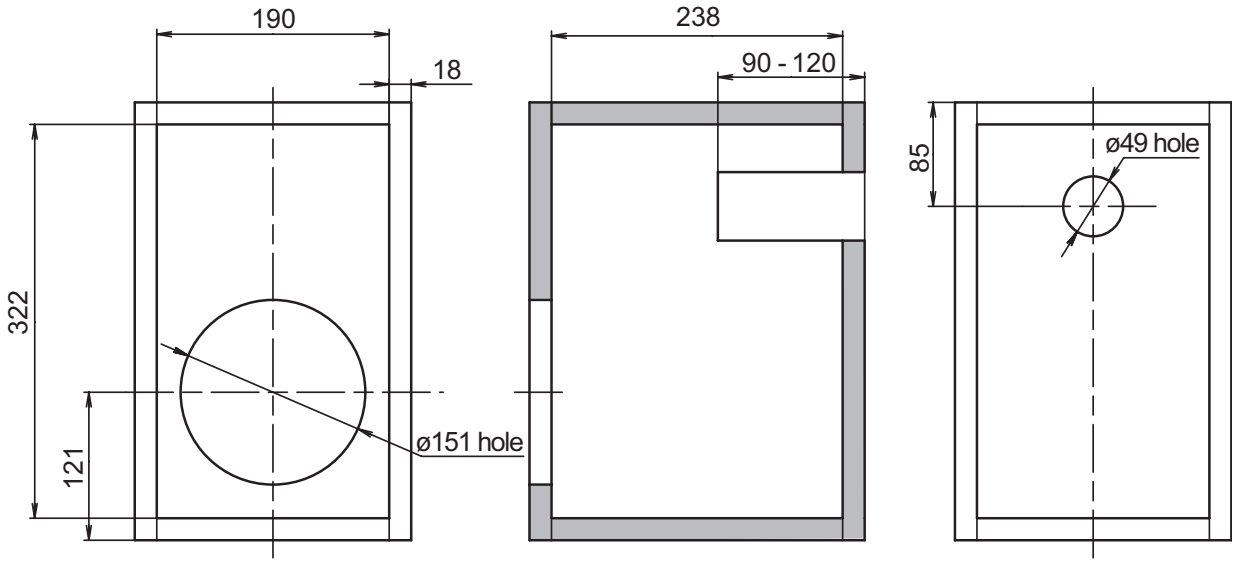




Overall Diameter	:	190	mm /	7.4 in
Baffle Hole Diameter	:	151	mm /	5.9 in
Depth	:	97	mm /	3.8 in

Recommended Bass Reflex Type Enclosure

The recommended enclosure volume is 14.5 liters and the bass reflex port is tuned 'Fb' to 48Hz - 54Hz (port length 90mm - 120mm).



Accessories

CS series film capacitors

High-grade compact capacitors with ø1.6mm copper lead.

Tolerance range : +/-5%
Dissipation : less than 2.5%(@1kHz)
Working Voltage : 240VDC/120VAC
Insulating resist : more than 1000MΩ
Operating temp. : -20° to +60°
Lead length : more than 70mm

CS0.33 (0.33μF)	CS1.5 (1.5μF)
CS0.47 (0.47μF)	CS2.2 (2.2μF)
CS0.68 (0.68μF)	CS3.3 (3.3μF)
CS1.0 (1.0μF)	

CT series film capacitors

Metallized polyester capacitors with ø0.8mm silver-alloy copper lead.

Tolerance range : +/-5%
Dissipation : less than 0.1%(@1kHz)
Working Voltage : 500VDC/200VAC
Insulating resist : more than 1000MΩ
Operating temp. : -20° to +60°
Lead length : more than 40mm

CT0.47 (0.47μF)	CT3.3 (3.3μF)
CT0.68 (0.68μF)	CT4.7 (4.7μF)
CT1.0 (1.0μF)	CT6.8 (6.8μF)
CT1.5 (1.5μF)	CT10 (10μF)
CT2.2 (2.2μF)	CT15 (15μF)

CP series film capacitors

High cost performance film capacitors.

Tolerance range : +10%/-5%
Dissipation : less than 0.2%
Working Voltage : 250VAC
Insulating resist : more than 2000MΩ
Operating temp. : -25° to +85°
Lead length : more than 105mm

CP1.0 (1.0μF)	CP6.8 (6.8μF)
CP1.5 (1.5μF)	CP10 (10μF)
CP2.2 (2.2μF)	CP15 (15μF)
CP3.3 (3.3μF)	CP20 (20μF)
CP4.7 (4.7μF)	

Grills

K308	8cm, square frame
K312	12cm, square frame
KG810	10cm, square/round frame
KG816	16cm, square/round frame
KG820	20cm, square/round frame

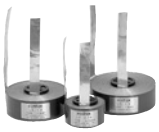
L series air core inductors

Conventional type air core inductors with less DC resistance.

L0.18	(0.18mH)
L0.3	(0.3mH)
L0.5	(0.5mH)
L1.0	(1.0mH)
L1.5	(1.5mH)
L1.8	(1.8mH)
L2.2	(2.2mH)
L2.8	(2.8mH)
L3.5	(3.5mH)

LS series air core inductors

High-grade inductors employing 'Hi-μ core' with less DC resistance and low distortion.



LS0.15	(0.15mH)
LS0.22	(0.22mH)
LS0.33	(0.33mH)
LS0.47	(0.47mH)
LS0.68	(0.68mH)
LS1.0	(1.0mH)
LS1.5	(1.5mH)
L2.2	(2.2mH)

Attenuators

High-input resistant attenuator-R80B, and coaxial version-R82B. 1dB step level adjustable high-grade trans-type, R100T.

P-30 brass tweeter stand

P-30 is the tweeter stand made of brass, which minimizes unwanted resonance and improves high frequency sound.

P16 HP sound reflector

HP sound reflector eliminates the standing waves in enclosure. HP's 3rd-order curved surface structure is ideal form and strength to extinguish naturally the standing waves by making sound reflected diffusely.

FOSTEX

Distributor / Authorised Dealer

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