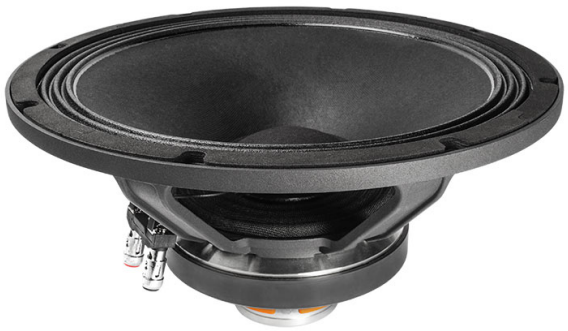
faital PRO PROFESSIONAL LOUDSPEAKERS

12HX230



LF 12" - 250 W - 96 dB - 16 Ohm
HF 30 W - 107 dB - 16 Ohm

NOMINAL SPECIFICATIONS

Nom. Diameter	300 mm (12 in)
Overall Diameter	316 mm (12.44 in)
Bolt Circle Diameter	298.5 mm (11.75 in)
Baffle Cutout Diameter	282 mm (11.10 in)
Depth	162 mm (6.38 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Net Weight	**5.2 kg (11.5 lb)**
Shipping Box (Single Carton Box)	350 x 346 x 190 mm (13.8 x 13.6 x 8.5 in)
Shipping Weight	5.7 kg (12.6 lb)

PART NUMBER

Push Terminals - 8 Ohm Version	00374315

TECHNICAL PARAMETERS

	LF	HF
Nom. Impedance	16 Ohm	16 Ohm
Minimum Impedance	13.7 Ohm	13.8 Ohm
AES Power Handling **(1)**	250 W	30 W
Max Power Handling (2)	**500 W**	**60 W**
Sensitivity (1W/1m) (3)	**96 dB**	**107 dB**
Frequency Range	55÷5000 Hz	1500÷20000 Hz
Voice Coil Diameter	**65 mm (2.56 in)**	**37 mm (1.46 in)**
Winding Material	**Al**	**Al**
Former Material	Glass Fiber	Kapton
Winding Depth	17.2 mm (0.68 in)	2.1 mm (0.08 in)
Magnetic Gap Depth	**8 mm (0.31 in)**	**2.6 mm (0.10 in)**
Flux Density	1.1 T	1.85 T
Min. Cross. Freq. **(4)**	-	1.7 kHz
Dispersion Angle	-	100°
Diaphragm Material	**-**	**Ketone Polymer**
Diaphragm Shape	**-**	**Annular**
Magnet	Ferrite Ring	Neodymium Ring
Basket Material	Aluminum	-
Demodulation	Aluminum Ring	-
Cone Surround **(5)**	Triple Roll	-
NET Air Volume filled by Loudspeaker	2.15 dm^3 (0.076 ft^3)	-
Spider Profile	1x variable height waves	-

THIELE & SMALL PARAMETERS

Fs	56 Hz
Re [LF]	11.5 Ohm
Re [HF]	11 Ohm
Qes	0.59
Qms	10.1
Qts	0.56
Vas	72.3 dm^3 (2.55 ft^3)
Sd	539 cm^2 (83.55 in^2)
Xmax **(6)**	7.27 mm
Xdamage **(7)**	15.25 mm
Mms	45.3 g
Bl	17.6 N/A
Le	0.93 mH
Mmd	31.2 g
Cms	0.18 mm/N
Rms	1.6 kg/s
Eta Zero	2.08 %
EBP	95 Hz

NOTES:

(1) 2 Hours Test According to AES 2-1984 Rev. 2003
(2) Maximum power is defined as 3dB greater than nominal power.
(3) HF Sensitivity averaged within the frequency range
(4) 12 dB/oct or higher slope high-pass filter
(5) Treated Polycotton
(6) Xmax= [(winding depth - magnetic gap depth)/2] + (magnetic gap depth/3)
(7) Maximum excursion before permanent damage