faital PRO PROFESSIONAL LOUDSPEAKERS

12HX500

LF 12" - 400 W - 95 dB - 8 Ohm
HF 90 W - 105 dB - 8 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	280 mm (11.02 in)
Depth	175 mm (6.89 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Net Weight	**5.5 kg (12.1 lb)**
Shipping Box (Single Carton Box)	350 x 346 x 216 mm (13.8 x 13.6 x 8.5 in)
Shipping Weight	6.2 kg (13.7 lb)

PART NUMBER

Push Terminals - 8 Ohm Version	03004329

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

TECHNICAL PARAMETERS

	LF	HF
Nom. Impedance	8 Ohm	8 Ohm
Minimum Impedance	6.6 Ohm	7.2 Ohm
AES Power Handling **(1)**	400 W	90 W
Max Power Handling (2)	**800 W**	**180 W**
Sensitivity (1W/1m) (3)	**95 dB**	**105 dB**
Frequency Range	50÷4000 Hz	500÷20000 Hz
Voice Coil Diameter	**77 mm (3 in)**	**74 mm (2.9 in)**
Winding Material	**Al**	**Al**
Former Material	Glass Fiber	Kapton
Winding Depth	21.5 mm (0.85 in)	3.5 mm (0.14 in)
Magnetic Gap Depth	**9 mm (0.35 in)**	**3.7 mm (0.15 in)**
Flux Density	1.2 T	2 T
Min. Cross. Freq. **(4)**	-	0.9 kHz
Dispersion Angle	-	100°
Diaphragm Material	**-**	**Titanium**
Diaphragm Shape	**-**	**Dome**
Magnet	Neodymium Ring	Neodymium Ring
Basket Material	Aluminum	-
Demodulation	Aluminum Ring	-
Cone Surround **(5)**	Triple Roll	-
NET Air Volume filled by Loudspeaker	2.5 dm^3 (0.088 ft^3)	-
Spider Profile	1x variable height waves	-

THIELE & SMALL PARAMETERS

Fs	55 Hz
Re [LF]	5.6 Ohm
Re [HF]	5.6 Ohm
Qes	0.39
Qms	7.3
Qts	0.37
Vas	57.8 dm^3 (2.04 ft^3)
Sd	540 cm^2 (83.62 in^2)
Xmax **(6)**	9.25 mm
Xdamage **(7)**	18.5 mm
Mms	58.88 g
Bl	17.4 N/A
Le	0.57 mH
Mmd	44.7 g
Cms	0.14 mm/N
Rms	2.8 kg/s
Eta Zero	2.48 %
EBP	141 Hz