

# 12FH520



12" - 600 W - 97 dB - 16 Ohm

## NOMINAL SPECIFICATIONS

|                                     |  |
|-------------------------------------|--|
| Nominal Diameter                    | 300 mm (12 in)                               |
| Overall Diameter                    | 316 mm (12.44 in)                            |
| Bolt Circle Diameter                | 298.5 mm (11.75 in)                          |
| Baffle Cutout Diameter              | 284 mm (11.18 in)                            |
| Depth                               | 155.75 mm (6.13 in)                          |
| Flange and Gasket Thickness         | 12.45 mm (0.49 in)                           |
| <b>Net Weight</b>                   | <b>4.2 Kg (9.3 lb)</b>                       |
| Shipping Box<br>(Single Carton Box) | 350 x 346 x 216 mm<br>(13.8 x 13.6 x 8.5 in) |
| Shipping Weight                     | 5 Kg (11.0 lb)                               |

## PART NUMBER

|                                 |          |
|---------------------------------|----------|
| Push Terminals - 16 Ohm Version | 03004124 |
|---------------------------------|----------|

## NOTES:

- (1) 2 Hours Test According to AES 2-1984 Rev. 2003
- (2) Maximum power is defined as 3dB greater than nominal power.
- (3) Treated Polycotton
- (4)  $X_{max} = [(winding\ depth - magnetic\ gap\ depth)/2] + (magnetic\ gap\ depth/3)$
- (5) Maximum excursion before permanent damage

## TECHNICAL PARAMETERS

|                                      |  |
|--------------------------------------|--|
| Nominal Impedance                    | 16 Ohm                                       |
| Minimum Impedance                    | 15 Ohm                                       |
| AES Power Handling (1)               | 600 W  |
| <b>Maximum Power Handling (2)</b>    | <b>1200 W</b>                                |
| <b>Sensitivity (1W/1m)</b>           | <b>97 dB</b>                                 |
| Frequency Range                      | 50-4000 Hz                                   |
| <b>Voice Coil Diameter</b>           | <b>77 mm (3 in)</b>                          |
| Winding Material                     | Al   |
| Former Material                      | Glass Fiber                                  |
| Winding Depth                        | 18 mm (0.71 in)                              |
| <b>Magnetic Gap Depth</b>            | <b>12 mm (0.47 in)</b>                       |
| Flux Density                         | 1.1 T  |
| Magnet                               | Neodymium Slug                               |
| Basket Material                      | Aluminum                                     |
| Demodulation                         | Aluminum Ring                                |
| <b>Cone Surround (3)</b>             | <b>Triple Roll</b>                           |
| NET Air Volume filled by Loudspeaker | 2.4 dm <sup>3</sup> (0.085 ft <sup>3</sup> ) |
| Spider Profile                       | 1x variable height waves                     |

## THIELE & SMALL PARAMETERS

|             |  |
|-------------|--|
| Fs          | 55 Hz  |
| Re          | 12.8 Ohm                                     |
| Qes         | 0.48   |
| Qms         | 17   |
| Qts         | 0.47   |
| Vas         | 49 dm <sup>3</sup> (1.73 ft <sup>3</sup> )   |
| Sd          | 500 cm <sup>2</sup> (77.50 in <sup>2</sup> ) |
| Xmax (4)    | 7.00 mm                                      |
| Xdamage (5) | 19.5 mm                                      |
| Mms         | 60.5 g                                       |
| Bl          | 23.5 N/A                                     |
| Le          | 1.6 mH                                       |
| Mmd         | 54.2 g                                       |
| Cms         | 0.14 mm/N                                    |
| Rms         | 1.23 Kg/s                                    |
| Eta Zero    | 1.63 %                                       |
| EBP         | 115 Hz                                       |

