

# 12FH510

12" - 500 W - 98 dB - 8 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              | 282 mm (11.10 in)                            |
| Depth                               | 140 mm (5.51 in)                             |
| Flange and Gasket Thickness         | 12 mm (0.47 in)                              |
| <b>Net Weight</b>                   | <b>7.8 Kg (17.2 lb)</b>                      |
| Shipping Box<br>(Single Carton Box) | 350 x 346 x 190 mm<br>(13.8 x 13.6 x 7.5 in) |
| Shipping Weight                     | 8.7 Kg (19.2 lb)                             |

## PART NUMBER

|                                |          |
|--------------------------------|----------|
| Push Terminals - 8 Ohm Version | 03004078 |
|--------------------------------|----------|

## 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                    | 8 Ohm                                        |
| Minimum Impedance                    | 6.4 Ohm                                      |
| AES Power Handling (1)               | 500 W                                        |
| <b>Maximum Power Handling (2)</b>    | <b>1000 W</b>                                |
| <b>Sensitivity (1W/1m)</b>           | <b>98 dB</b>                                 |
| Frequency Range                      | 45-3150 Hz                                   |
| <b>Voice Coil Diameter</b>           | <b>77 mm (3 in)</b>                          |
| Winding Material                     | Al                                           |
| Former Material                      | Glass Fiber                                  |
| Winding Depth                        | 18.5 mm (0.73 in)                            |
| <b>Magnetic Gap Depth</b>            | <b>10.5 mm (0.41 in)</b>                     |
| Flux Density                         | 1.2 T                                        |
| Magnet                               | Ferrite Ring                                 |
| Basket Material                      | Aluminum                                     |
| Demodulation                         | No                                           |
| Cone Surround (3)                    | M-Roll                                       |
| NET Air Volume filled by Loudspeaker | 2.9 dm <sup>3</sup> (0.102 ft <sup>3</sup> ) |
| Spider Profile                       | 1x variable height waves                     |

## THIELE & SMALL PARAMETERS

|             |                                              |
|-------------|----------------------------------------------|
| Fs          | 45 Hz                                        |
| Re          | 5.1 Ohm                                      |
| Qes         | 0.25                                         |
| Qms         | 10.9                                         |
| Qts         | 0.24                                         |
| Vas         | 81.3 dm <sup>3</sup> (2.87 ft <sup>3</sup> ) |
| Sd          | 533 cm <sup>2</sup> (82.62 in <sup>2</sup> ) |
| Xmax (4)    | 7.50 mm                                      |
| Xdamage (5) | 21.5 mm                                      |
| Mms         | 61.0 g                                       |
| Bl          | 18.9 N/A                                     |
| Le          | 0.9 mH                                       |
| Mmd         | 47.1 g                                       |
| Cms         | 0.21 mm/N                                    |
| Rms         | 1.6 Kg/s                                     |
| Eta Zero    | 2.92 %                                       |
| EBP         | 180 Hz                                       |

