

## New model development - Preliminary information January 2012

### GENERAL DESCRIPTION AND APPLICATION TARGET

High performance 6" Mid Bass with ceramic magnet

- Good power handling: 170 w AES
- High sensitivity: 94 dB
- FEA optimized magnetic circuit
- Designed with MMSS technology for high control, linearity and low harmonic distortion.
- Waterproof treatment for both sides of the cone
- 2" Aluminium Voice coil
- Demodulating ring for low harmonic distortion
- Excellent for Line array applications (Weight 2,2 kg)

### TARGET PARAMETERS

MODEL	6G40Fe
<b>TECHNICAL SPECIFICATIONS</b>	
Nominal diameter	6"
Rated impedance	8 ohms
Power capacity	170w AES
Sensitivity	94 dB
Frequency range	70-5000 Hz
Voice coil diameter	2"
BL factor	11 N/A
Moving mass	12 g
Voice coil length	9 mm
Air gap height	7 mm
X damage (peak to peak)	20 mm
<b>THIELE-SMALL PARAMETERS</b>	
Resonant Frequency, $f_s$	100 Hz
D.C. Voice Coil Resistance, $R_e$	6 $\Omega$
Electrical Quality Factor, $Q_{es}$	0.35
Total Quality Factor, $Q_{ts}$	0.34
Equivalent Air volume to Cms, $V_{as}$	7,2 l.
Efficiency, $\eta_o$ (%)	1,2
Effective Surface Area, $S_d$ ( m2 )	0,0140 m2
Maximum Displacement, $X_{max}$	1 mm