

Elite 2200 Series Features

	Elite 2212	Elite 2210	Elite 2208
Low-profile, SLX cast alloy basket provides focused magnetic field	Yes	Yes	Yes
CNC machined 2-inch motor using forged, low-carbon 1008 steel parts	Yes	Yes	Yes
FEA designed motor with monolithic pole/back-plate and 5.5" top-plate	Yes	Yes	Yes
Integrated-Convection-Aluminum-Radiator ("I-CAR") vented heatsink	Yes	Yes	No
Premium, high-temperature Copper Clad Aluminum ("CCA") voice coil wire	Yes	Yes	Yes
High modulus, low-mass Composite Laminated Sandwich ("CLS") cone	Yes	Yes	Yes
Large diameter, flat, progressive-roll spider insures very linear damping	Yes	Yes	Yes
Heavy-duty, 25 mm surround provides up to 2-inches of total excursion	Yes	Yes	Yes

Technical Specifications		Parameter		
Nominal Diameter	Diameter	12" / 300 mm	10" / 250 mm	8" / 200 mm
Recommended Amplifier Power Range (RMS)	Pmax	200 - 1,200 watts	150 - 1,000 watts	100 - 800 watts
Power Handling (continuous)	Pt	600	500	400
Force Factor (Tesla-M)	Bl	14.5	11.8	11.7
Motor Force	Bl ² /Re	63.5	41.5	39
Linear Excursion (70% Bl / one-way)	Xmax	12.7 mm	12.5 mm	12.5 mm
Maximum Excursion (peak-to-peak)	Xmech	2.1"	1.80"	1.65"
Voice Coil Diameter	Dvc	2" / 51 mm	2" / 51 mm	2" / 51 mm
Magnet Structure (diameter / mass)	mm / oz.	150 / 70 oz.	150 / 70 oz.	150 / 50 oz.
Energy Bandwidth Product	EBP	54	52	67
Frequency Response (In-Car)	F3	10 - 500 Hz.	15 - 800 Hz.	20 - 1,000 Hz.
Installation Diameter (gasket ID)	cutout hole	11.0" / 280 mm	9.2" / 234 mm	7.5" / 190 mm
Mounting Depth (total)	top-mount	5.9" / 150 mm	5.4" / 137 mm	4.2" / 107 mm
Net Weight	Lbs. / kg	17.0 / 7.7	16.3 / 7.4	9.9 / 4.5

Thiele-Small Parameters		Parameter		
Resonant Frequency	Fs	28 Hz.	35 Hz.	38 Hz.
Equivalent Air Volume	Vas	59.4 L	27.0 L	10.9 L
Electrical Q	Qes	0.52	0.68	0.58
Mechanical Q	Qms	6.6	4.4	3.2
Total Damping Q	Qts	0.48	0.60	0.50
Effective Cone Area (sq. in / cm ²)	Sd	77.4 / 499	53.6 / 346	31.9 / 206
Voice Coil DC Resistance (DCR)	Re	3.3 ohms	3.3 ohms	3.5 ohms
Suspension Compliance (mm/Newton)	Cms	0.170	0.160	0.180
Nominal Impedance	Znom	4 ohm	4 ohm	4 ohm
Voice Coil Inductance (1 kHz)	Le	2.6 mH	1.8 mH	1.9
Effective Moving Mass	Mms	187.3 g	125.6	92.5 g
Reference Efficiency (%)	No	0.245	0.17	0.11

Additional Data / Applications

Minimum Sealed Enclosure (cu. ft. / liters)	(Vb)	1.0 / 29.0	0.65 / 19.0	0.40 / 11.5
Infinite-Baffle use approved (no box required)	(I-B)	No	Yes	Yes
Suggested Vented/Bass-Reflex Enclosure *	(F3)	* Optimal enclosure designs and alignments are available at Audiomobile.net		