



NEW



# Integra 524

Hybrid Integra Coaxial

Ø 5", Ø 2.1" voicecoil, 4Ω

## SPECIFICATIONS

### General Data

Overall Dimensions	<b>DxH</b>	143.2 mm(5.6")x 66.3 mm(2.6")
Nominal Power Handling (DIN)	<b>P</b>	80W > 2500Hz , 12dB
Transient Power 10ms		200W
Sensitivity 2.83V/1M		89dB
Frequency Response		See graph
Cone/Dome Material		Soft Dome
Net Weight	<b>Kg</b>	0.49

### Electrical Data

		Tweeter	Woofers
Nominal Impedance	<b>Z</b>	4Ω	4Ω
DC Resistance	<b>Re</b>	3.59 Ω	3.63 Ω
Voice Coil Inductance @ 1KHz	<b>LBM</b>	0.24mH	0.49mH

### Voice Coil and Magnet

		Tweeter	Woofers
Voice Coil Diameter	<b>DIA</b>	28 mm	54 mm
Voice Coil Height		2.0 mm	10mm
HE Magnetic Gap Height	<b>HE</b>	2.5mm	4mm
Max. Linear Excursion	<b>X</b>	±0.25mm	±3.0mm
Voice Coil Former			Aluminum
Voice Coil Wire		Copper	Hexatech™
Number Of Layers			Aluminum
Magnet System Type		Hybrid™ Neodymium/Ferrite	2
B Flux Density	<b>B</b>		0.85 T
BL Product	<b>BXL</b>		5.05 T·m

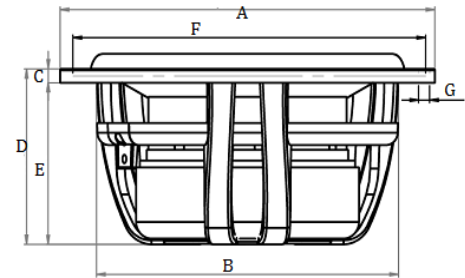
### T-S Parameters at 1v

		Tweeter	Woofers
Suspension Compliance	<b>Cms</b>		0.98 mm/N
Mechanical Q Factor	<b>Qms</b>	2.26	1.65
Electrical Q Factor	<b>Qes</b>	2.69	0.36
Total Q Factor	<b>Qts</b>	1.22	0.29
Mechanical Resistance	<b>Rms</b>		1.55 ΩM
Moving Mass	<b>Mms</b>		6.59 g
Eq. Cas Air Load (liters)	<b>VAS</b>		12.93 L
Resonant Frequency	<b>Fs</b>	1083 Hz	62 Hz
Effective Piston Area	<b>SD</b>	6.15 cm <sup>2</sup>	97 cm <sup>2</sup>

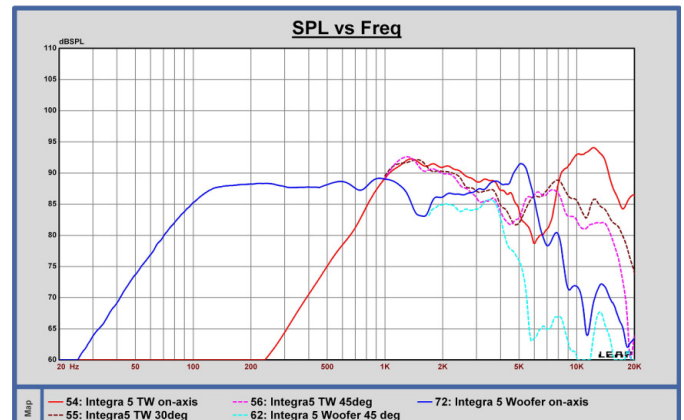
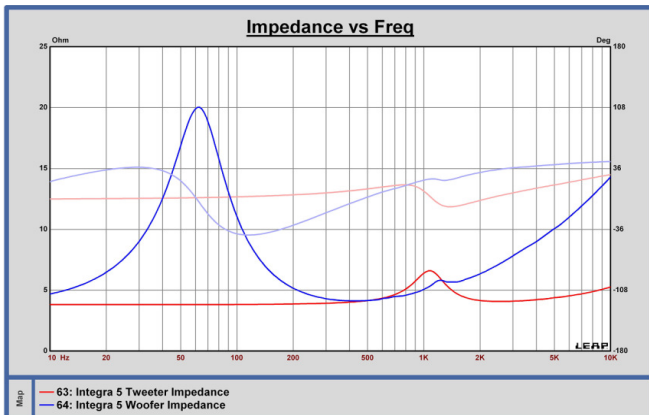
## FEATURES

- ▶ Acuflex™ Hand Coated Soft Dome
- ▶ 2.1" Large Hexatech™ Aluminum Voice Coil
- ▶ Hybrid™ Neodymium/Ferrite magnet
- ▶ Time aligned tweeter-woofer configuration
- ▶ High power handling
- ▶ Uniflow™ Aluminum die-cast chasis

## Unit Dimensions



A - Overall diameter	143.2mm
B - Cut out diameter	120.0mm
C - Flange thickness	6.0 mm
D - Overall height	66.3 mm
E - Basket depth	60.3 mm
F - Mounting holes location diameter	134.8mm
G - 6 Mounting holes, at 60° interval, inner hole diameter	4.2 mm



Driver is mounted rigidly in free air with no baffle or enclosure. Input signal is a stepped sinusoidal at 1VRMS. Impedance is measured using constant-voltage method. No smoothing was applied.

Driver was mounted rigidly on an IEC baffle. Microphone distance is 0.5m, input voltage 2.83VRMS and normalized to 1m. 1/12 octave smoothing was applied.

Morel operates a policy of continuous product design improvement. Consequently specifications are subject to alteration without prior notice