

## **MODAL 110**

**Exciter System** 



## MB's MODAL 110 - longer - lighter - stronger - and RED!

MB MODAL EXCITERS are the #1 selling exciters in the world -over 1300 in use worldwide!

The MODAL 110 delivers 110 lbs force (500N) and 1.5" (38 mm) stroke pk-pk; has twice the force and 50% more stroke than the MODAL 50.



- \* Long Stroke
- \* Light moving element mass
- Low longitudinal stiffness
- \* Stiff radial stiffness
- Patented flexure assembly
- Neodymium magnets
- \* Light-weight exciter





**MB500VI AMPLIFIER SPECS** 

## **MODAL 110 EXCITER SPECS**

*	Earcould 110 lbf pools (E00 N) forced air cooled:	.*.	Linear amplifier design for high fidelity law
***	Force: 110 lbf peak (500 N) forced-air cooled; 55 lbf pk (250 N) convection air cooled	*	Linear amplifier design for high fidelity, low noise (50% efficient); convection cooled
*	Force: 75 lbf RMS (350 N) forced-air cooled;	**	Frequency range; DC-20 KHz; usable to 50 KHz
•	40 lbf RMS (175 N) convection air cooled	*	AC or DC coupled, separate BNCs
*		*	Current feedback and voltage feedback, external
•	between stops	•	switch selectable
*	Max. Acceleration: 830 m/s <sup>2</sup> peak	*	Output power: 625 VA; 25 VRMS max. voltage;
*	Max. Velocity: 1.6 m/s peak		25 ARMS max. current, 35 A peak
*	Bandwidth: DC-5000 Hz	*	Output connector: 3-pin AMP, mates to shaker
*	Moving element: 0.9 lbs (0.41 kg)	*	Output current measurement, BNC
*	Axial resonance frequency: > 5,000 Hz	*	Over-current, over-voltage shutdown protection
*	Longitudinal stiffness; 30 lb/in (5.2N/mm)	*	Over-temperature protection
*	Shaker weight: <55 lbs (25 kg)	*	Internal DC Supply: 42VDC and 20ADC
*	Shaker cooling: shop air, with integral air	*	Signal-to-noise: >100dB THD: <0.1%
	coupling; aux. fan cooling package	*	Options include: set-up & monitor with PC via
	Clearance hole through armature for stinger		Ethernet; shutdown via TTL or contact closure;
*	Compression and piano wire stingers, secured		remote monitoring of MODAL 110 temperature
	with collets & chuck via 5/16-24 (M8) threads	*	User-adjustable current and voltage trip limits
*	Overtravel protection	*	Input power: 100, 110, 120, 200, 220, 240V;
*	Current limiting shutdown		48 - 62 Hz (1.0 KVA); in-line fuse protection
*	DC Resistance: $0.4 \Omega$ ; AC Impedance: $1.0 \Omega$	*	Sig. IN for max OUT: $\pm 3$ Vpk; also $\pm 1$ , 5, 10Vpk
*	Options: Accessory Kit & Cooling Unit	*	Input Impedance: >10kOhm
*	Continuous Operation: 5 – 35 degC; <85% RH	*	19" rack x 3½"H (89mm) x 14¼"D (362mm)
**	CE Mark	*	Weight: 33 lbs (15 kg)
		**	CE Mark

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