



Model HPMC-LF132A

10 KHz-1.5 MHz, 32Way, 2U, High Performance Multicoupler



The HPMC-LF132A is a LF 32 way multi-coupler. Offering, high performance solution for coupling up to 32 VLF/MF receivers to a single antenna. The unit is provided in a 19" 2U high rack mounted case. Health monitoring is provided. Local LED indicates 'STATUS', an opto-coupler output allows remote indication of 'STATUS'. Lighting protection is incorporated. Optional Filter may be fitted to reject above 2 MHz, (HF Broadcast services).

SPECIFICATIONS

Parameter	Limits
Frequency	10 KHz – 1.5 MHz
Gain	0dB nominal (+/- 0.5dB)
Gain Variation	+/- 1dB max (Typ +/-0.3dB)
Noise Figure	@10kHz NF is <15dB @100kHz NF is <8dB @1.5MHz NF is <7dB
Number of inputs	1
Number of outputs	32
Output Intercept (OPIP)	-
Measure at 2 tones 0 dBm	- 3rd Order @ 900kHz, >33dBm min - 2nd order @ 1200kHz, >+77dBm min
VSWR input 50 Ohm	2:1 max. (Return Loss >10dB)
VSWR output 50 Ohm	1.7:1 max. (Return Loss >11.8dB)
Isolation - Output to output - Output to input	>28dB min (typically 35-40dB) >25dB min
Max. input signal CW	30dBm cont.
Lightning Protection	2kV 1.6ns rise time, 50ns duration
Power	115/240V AC (Internally adjustable), <10W

Alarms/Protection CCT

Alarms – The multicoupler has a 'on board' health monitoring circuit which monitors the operation of the active amplifier. Should a fault occur the 'Status' LED on the front panel will change from 'Green' to 'Red' and an opto-coupler (transistor) is activated to provide remote alarm operation. The remote alarm pins are available on the rear panel (mini fit jnr) connector.

The unique design of the amplifier ensures that levels on the RF output are always <+20dBm ensuring that the following RX's are not damaged by high level RF.

(HPMC-LF132A)

AEROCOMM Co.,Ltd • 89 & 89/1 Intamara41, Sutthisarn Road, Dindaeng, Bangkok 10400 THAILAND

Email : aerocomm@aerocommthailand.com • Web : www.aerocommthailand.com

Tel : (662) 6938300-2, (662) 6937880-1 • Fax : (662) 6938304

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SPECIFICATIONS

Mechanical

Parameter	Limits
Connectors	RF BNC Female sockets Power/Alarm DC connector is Molex , Mini fit Jr.
Dimensions	19", 2U rack mount,

Environmental

Parameter	Limits
Temp range	operating: -10C to +55C storage: -20C to +70C

Options:

- 1 - The unit can be preceded by a LPF filter unit. This removes interference from HF Shortwave broadcasts.
- 2 – Fitment of a mains Power supply to operate of 240V 50Hz AC mains.

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