

The HPMC-LF132A-HI, is a LF 32 way multi-coupler. The unit has high isolation 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'. In Addition there are 4 rear mounted LEDS to show the status of the output group status.

2 Front Panel fans ensure low temperature reliable operation.



## Specification:

### Parameter

### Limits

Freq:	14kHz to 1.5MHz
Gain:	1dB nominal (+/1dB)
Gain Variation:	+/- 1dB max
Noise Figure:	@14kHz NF is <16dB (Typ 14dB) @100KHz NF is <11dB (Typ 8dB) @1.5MHz NF is <10dB (Typ 6dB)
Number of inputs:	1
Number of outputs:	32
Input Output Impedance	50 Ohms
Output Intercept (OPIP):-	
3rd Order	>30dBm min .
2nd order	>+75dBm min.
P1dB	> +16dBm
VSWR input 50ohm:	2:1 max. (Return Loss >10dB)
VSWR output 50Ohm	1.7:1 max. (Return Loss >11.8dB)
Isolation - Output to output:	>40dB min
Output to input:	>45dB min
Max. input signal CW	30dBm cont.
Power:	110/220V AC (Selectable), Power <50W

## 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'.

In addition 4 x 8way LEDs are present on the rear to identify which 'bank' of outputs are operative. The indication is a Green LED when ok and LED extinguished when fail.

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.

## Electrical:

AC Mains Power Connector	-	3 Pin IEC male connector.
AC Mains Switch	-	Illuminating Mains Switch is front panel located
AC Mains Fuse	-	1A, Rear panel mounted
DC Fuse	-	4A, Front panel mounted
110/220V AC+/-10%, 47-63Hz	-	Manual Selector Rear Panel

## Mechanical

Connectors: I/P	1 x N – Type Female
O/P	32 x BNC Female

## Environmental

Temp range:	operating: 0C to +50C storage: -20C to +70C
Humidity	5% to 95% ( Non condensing )
EMI	FCC Part 15

## Cooling

The unit dissipates up to 50W

Fan assisted cooling, with rear upper and lower exhaust vents.  
NOTE: Do not block the exhaust vents leave adequate specs of at least 20mm above and below the vents. Case is vented to facilitate cooling via forced air