



Model HPMC-LF132A-HI

14 KHz-1.5 MHz, 32 Way, 2U, High Isolation Multicoupler



SPECIFICATIONS

| Parameter | Limits |
|---|---|
| Frequency | 14kHz - 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 - 2nd Order - P1dB | >30dBm min >+75dBm min > +16dBm |
| 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 | >40dB min >45dB min |
| Max. input signal CW | 30dBm cont. |
| Power | 110/220V AC (Selectable), Power <50W |

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.

(HPMC-LF132A-HI)

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Electrical

| Parameter | Limits |
|-----------------------------|--|
| 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

| Parameter | Limits |
|-----------------------|--|
| Connectors I/P O/P | 1 x N – Type Female 32 x BNC Female |

Environmental

| Parameter | Limits |
|------------|--|
| 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 |
|-------------------------------|---|

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.

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