



Model HPMC-001A 1U

1.5-30 MHz, 8 Way, 1U, High Performance Multicoupler



SPECIFICATIONS

Parameter	Limits
Frequency	1.5 – 30 MHz
Gain	1.5 dB nominal
Gain Variation	+/- 0.5 dB max
Noise Figure	5 dB max. (typ 4.3B)
Number of inputs	1
Number of outputs	8
Output Intercept (OPIP)	-
Measure at 2 tones + 5 dBm, 7 MHz and 11 MHz	- 3rd Order at 15Mhz, >33dBm min . (typ +35dBm) - 2nd order at 18Mhz, >+70dBm min. (typ +75dBm)
P1dB	i/p >16dB
VSWR input 50 Ohm	1.5:1 max. (Return Loss >14dB)
VSWR output 50 Ohm	1.3:1 max. (Return Loss >17.7dB)
Isolation - Output to output - Output to input	>30 dB min >22 dB min
Max. input signal CW	20dBm cont
Lightning Protection	2kV 1.6ns rise time, 50ns duration
Power	OPT1. Mains 115/230V, set internally, max power 10W OPT2. DC 24V

The HPMC001A is a HF 8 way multi-coupler. It is a high isolation solution for coupling up to 8 HF receivers to a single antenna. Using a unique feedback circuit, exceptional linearity performance is achieved. The unit is provided in a 19" 1U 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 LF/MF and VHF 88-108 Broadcast services.

(HPMC-001A 1U)

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

Specifications contained herein are subject to change without notice. AeroComm Co., Ltd. assumes no liability for the use of this information.



Model HPMC-001A 1U

1.5-30 MHz, 8 Way, 1U, High Performance Multicoupler

SPECIFICATIONS

Mechanical

Parameter	Limits
Connectors i/p and o/p	RF BNC Female sockets
Power/Alarm	DC connector is Molex 4W, Mini fit Jr.
Dimensions	19", 1U rack mount,
Colour	Front panel is Black and the rest of the case is Natural Aluminium.

Environmental

Parameter	Limits
Temp range	operating: -10C to +55C storage: -20C to +70C
Humidity	5% to 95% (Non condensing)
MTBF	>75,000hrs (25Deg C, Ground Benign, MIL-HDBK-217F)

Cooling

Case is vented top and bottom

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.

Options: The complete part number is made as follows: HPMC-001A/(PSU)/(DC)/(Fx)/1U

HPMC-001A : The core specified Multicoupler

PSU : Mains PSU – uses a low noise switch mode type, 115-230VAC

DC : Allows external powering via a DC source. Eg DC24 = 24 DC external power.

Fx : Specifies a filter type, eg. F1 is Stancom FL001 type

1U : The whole package is in a 1U chassis.

Note : when AC and DC are both specified AC is the master supply and the DC is the secondary supply. An internal relay switches between the two.

(HPMC-001A 1U)

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

Specifications contained herein are subject to change without notice. Aerocomm Co., Ltd. assumes no liability for the use of this information.