

Features:-

- **Low noise <6dB, typ 4.7dB.**
- **Output To Output Isolation >30dB, Typ >35dB.**
- **Very high linearity, o/p TOIP >+35dBm.**
- **Linear PSU to maintain low electrical noise.**
- **Low Power, no fans required**



Option include:-

- **Additional Broadcast Filter dc-1.5MHz, <- 50dB.**
- **Input protection up to 30V RMS**
- **Remote alarm indication**
- **External 12V dc input with auto switch over.**

Specification:

Parameter

Limits

| | |
|---|--|
| Freq: | 1.5-30MHz |
| Gain: | 1.5dB nominal |
| Gain Variation: | +/- 0.5dB max |
| Noise Figure: | 6dB max. (typ 4.7dB) |
| Number of inputs: | 1 |
| Number of outputs: | 16 |
| Output Intercept (OPIP):- | |
| Measured at 2 tones +5dBm, 7Mhz and 11Mhz | 3rd Order at 15MHz, >+35dBm min. (typ +38dBm) 2nd order at 18MHz, >+70dBm min. (typ +75dBm) |
| P1dB | i/p >+10dBm. |
| VSWR input 50Ohm (Unbalanced) | 1.5:1 max. (Return Loss >14dB) |
| VSWR output 50Ohm (Unbalanced) | 1.3:1 max. (Return Loss >17.7dB) |
| Isolation - Output to output: | < -30dB min. (Typ -35dB) |
| Output to input: | < -35dB min. (Typ -36dB) |
| Max. input signal CW | 20dBm cont. |
| Lightning Protection | 2kV 1us rise time, 50us duration |
| Power: | Std. Mains 115 or 230V, 50Hz +/-5%. Set on rear panel. Max power 12W |

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'.

With the remote alarm option 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.

Mechanical

| | |
|----------------|---|
| Connector i/p | N-Type Female. (If needed BNC can be fitted instead) |
| Connectors o/p | BNC Female |
| Dimensions: | Power/Alarm DC connector is Molex 4Way, Mini fit Jr. 19", 1U rack mount, |

Colour – Front and Rear panel is Black and the rest of the case is Natural Aluminium.

Environmental

| | |
|-------------|---|
| Temp range: | Operating: -10C to +55C Storage: -20C to +70C |
| Humidity | 0% to 95% (Non condensing) |
| MTBF | >75,000hrs (25Deg C, Ground Benign, MIL-HDBK-217F) |

Cooling

Case is vented top and bottom

Options: - The complete part number with options is made as follows:-

HPMC-008A/(PSU)/(DC)/(Fx)/(ALRM)/(HV)

HPMC-008A – The core specified Multicoupler

PSU - Mains PSU – Linear Low noise type.

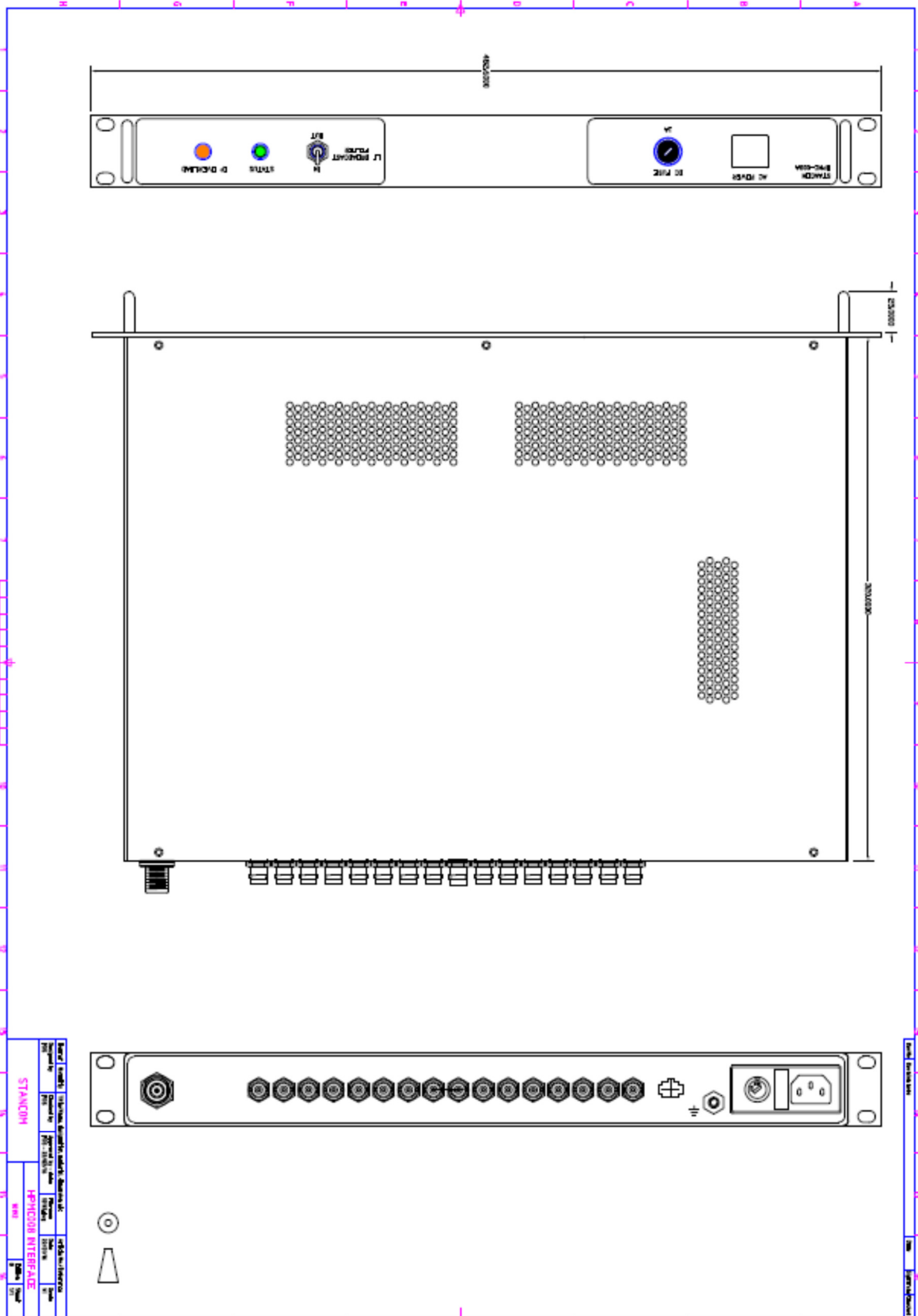
DC – Allows external powering via a DC source, eg DC24 = 24 DC external power.

Fx – Specifies a filter type, eg. FL008 is Stancom FL008 type

ALRM – Remote Alarm Fitted.

HV – Hi Voltage input protection cct, 30V RMS at input.

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.



| | | | |
|------------|----------|------------------|--------|
| STANCOM | | HPM08A ENTERFACE | |
| Model | HPM08A | Part No. | HPM08A |
| Revision | 01 | Issue | 01 |
| Date | 10/10/18 | Drawn By | HPM08A |
| Checked By | HPM08A | Approved By | HPM08A |

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