

Miniature Receiver Multicoupler series for the VHF and low UHF band 30 - 960 MHz

DESCRIPTION

- Active wideband receiver multicoupler for the VHF band and the low part of the UHF band with one input and two or four outputs.
- For use where a number of receivers have to share the same antenna.
- Wide frequency range. Covers 30 - 960 MHz.
- Other versions available:
 - HPRS-S : 10 kHz - 108 MHz
 - HPRS-U : 690 MHz - 2.7 GHz
- High-dynamic range amplifier built in to compensate for loss in the multicoupler network.
- High OIP2 and OIP3.
- Low amplifier noise figure.
- High isolation between receiver outputs.
- 12 V operating voltage (24 V as option).
- DC supply on solder terminal or on 2.5 mm barrel DC connector.
- Coated with black vinyl to prevent corrosion.
- Available with N, TNC or BNC connector types.

SPECIFICATIONS

Electrical	
Model	HPRS
Gain (Input To All Outputs)	Gain adjustment -5 dB to +3 dB
Frequency	30 - 960 MHz
Noise Figure	< 3.5 dB @ 400 MHz
Output 2. Order Intercept point (OIP2)	> +65 dBm @ 12.0 V and max. gain
Output 3. Order Intercept point (OIP3)	> +33 dBm @ 12.0 V and max. gain
Impedance	50 Ω
Input VSWR	< 2.5:1 typ. < 2.0:1
Output VSWR	< 2.0:1 typ. < 1.5:1
P1dB	> +20 dBm @ 12.0 V and max. gain
Isolation between outputs	30 - 50 MHz > 18 dB 50 - 800 MHz > 20 dB 800 - 960 MHz > 18 dB
Input-Output Isolation	> 23 dB
Power Supply	10.2 to 13.8 V / max. 450 mA
No. of channels	2 or 4
Mechanical	
Connection(s)	N(f), (BNC(f) or TNC(f)
Dimensions	Approx. 129 x 152 x 35 mm / 5.08 x 5.98 x 1.38 in. (incl. connectors and flanges)
Weight	Approx. 0.36 kg / 0.79 lb.
Mounting	5 mm / 0.20 in. dia. (four holes)
Environmental	
Operating temperature range	-30 °C to +50 °C
Ingress Protection	IP31



ORDERING

Model	Product No.	Description
HPRS2-N(f)	210000201	OUTPUTS: 2
HPRS2-TNC(f)	210001958	OUTPUTS: 2
HPRS2-BNC(f)	210000319	OUTPUTS: 2
HPRS4-N(f)	210000188	OUTPUTS: 4
HPRS4-TNC(f)	210001959	OUTPUTS: 4
HPRS4-BNC(f)	210000321	OUTPUTS: 4
Accessories		
Power Supply AC/DC 12V/1A EU/UK/US	240000060	

POWER SUPPLY AC/DC 12V/1A EU/UK/US



