

# HPRS4-N

## Miniature 4-Channel Receiver Multicoupler



### DESCRIPTION:

- ★ For use where four receivers have to share the same antenna.
- ★ High isolation between the four receivers: > 20 dB.
- ★ High-dynamic range amplifier built-in to compensate for loss in the multicoupler network.
- ★ Ultra high third-order intercept point, > +37 dBm.
- ★ Low noise figure, < 3.5 dB for the amplifier.
- ★ Wide frequency range. Covers 50-960 MHz (10 kHz-60 MHz version available).
- ★ 12 V operating voltage (24 V as option).
- ★ N-female connectors on input and outputs (other types available).
- ★  $P_{1dB} > +21$  dBm.



### SPECIFICATIONS:

ELECTRICAL	
MODEL	HPRS4-N
FREQUENCY RANGE	50-960 MHz (option 10 kHz-60 MHz)
GAIN INPUT TO ALL OUTPUTS	-8 dB → +2 dB @ 500 MHz
NOISE FIGURE AMPLIFIER	< 3.5 dB @ 500 MHz
NOISE FIGURE OUTPUTS 1-2-3-4	< 5.5 dB @ 500 MHz @ 0 dB gain
3rd ORDER INTERCEPT POINT	> +37 dBm
$P_{1dB}$	> +21 dBm
INPUT SWR	Max. 2.5, typically < 1.5
OUTPUT SWR	Max. 2.0, typically < 1.5
ISOLATION OUTPUT TO OUTPUT	> 20 dB
ISOLATION OUTPUT TO INPUT	> 20 dB
VOLTAGE	12 V @ 500 mA
MECHANICAL	
DIMENSIONS (L x W x H)	138 (incl. connectors) x 152 (incl. flanges) x 35 mm
WEIGHT	Approx. 435 g