

Receiver Splitter Amplifier



DrawCom supplies a wide range of Receiver Splitter Amplifiers (RSA) to provide a Receiver Multicoupling function covering the frequency range 60 - 2200MHz.

The RSA consists of a bandpass filter, a linear amplifier and a passive hybrid coupler in series and standard models and are typically used to provide up to 16 outputs; a greater number of outputs are available to special order.

Bandwidth is dependent upon the required operating frequency and the actual working bandwidth can be set to meet customer requirements within $\pm 10\%$ of the centre frequency. Wider bandwidths are also available. Out of band rejection is dependent upon the bandwidth and frequency. Suitable filters will be selected to meet specific customer requirements. Isolation, receiver to receiver, would be generally better than 25dB.

The low noise linear amplifier used is chosen to meet customer requirements and can be narrowband or wideband to suit the desired RSA performance.

- RX multicoupling function
- Compact 19" rack mount design
- AC or DC operation
- Wide or narrow bandwidth
- MTBF > 150,000 hours
- Power Supply 220V AC or 24V DC
- 2U 19" rack mount
- Type-N female connectors

Receiver Splitter Amplifier (cont.)

Typical Specifications

Frequency Band	VHF	VHF	VHF	UHF	UHF	UHF
Typical Bandwidth	2 MHz	2 MHz	2 MHz	3 MHz	3 MHz	3 MHz
Typical Noise Figure	3.5 dB	3.5 dB	3.5 dB	3.5 dB	3.5 dB	3.5 dB
Gain (factory pre-set)	3 dB	3 dB	3 dB	3 dB	3 dB	3 dB
VSWR (all ports)	< 1.3:1	< 1.3:1	< 1.3:1	< 1.3:1	< 1.3:1	< 1.3:1
RX/RX Isolation	>20 dB	>20 dB	>20dB	>20 dB	>20dB	>20dB
Impedance (all ports)	50 Ohms	50 Ohms	50 Ohms	50 Ohms	50 ohm at all ports	50 ohm at all ports
LNA IP3	+33dBm	+33dBm	+33dBm	+33dBm	+33dBm	+33dBm
Input Ports	1	1	1	1	1	1
RX Ports	4	8	16	4	8	16
Max. I/P Power	0dBm	0dBm	+0dBm	+5dBm	+0dBm	+0dBm
Temperature Range (°C)	-20 to +55	-20 to +55	-20 to +55	-20 to +55	-20 to +55	-20 to +55

