gain and excellent 30IP performance, with a multi-way output divider to ensure optimum system receive sensitivity is available. Integral high quality bandpass filtering provides high Rx selectivity and Tx-Rx system isolation performance. Form-C relay outputs provide alarm notification of DC power or Rx LNA amplifier failure. The MSC is available in sub-bands covering VHF, UHF and 7/8/900MHz frequency ranges.

The MiniSystem Combiner (MSC) is an innovative solution that simplifies the design, guotation, procurement and installation of RF combining for applications requiring 1-2 RF channels. It caters for most standard frequency sub-bands, channel spacings and

Features:

- 2 channel capacity
- Integral Tx/Rx filters for dual antenna operation
- 50W Tx input power (per channel)
- 100% Tx Duty Cycle
- Open-circuit antenna port VSWR protection
- Ultra low noise receiver preamplifier
- User-selectable Rx gain
- DC power and Rx LNA Fail alarm monitoring

Compact 19in rack moun									
					REAR VIEW				
							Sp	ecification	
Model MSxxxx-0405-DP	3436	3638	3840	4043	4345	4547	4750	5052	
Frequency Range (MHz)	340-360	360-380	380-400	400-430	430-450	450-470	470-500	500-520	
System Channel Capacity	≤ 2								
Tx Input Power	≤ 50W per channel								
Tx Duty Cycle	100% per channel								
Tx-Tx Bandwidth	1.2MHz								
Tx Insertion Loss	7.5dB (typ.)								
Tx-Tx / Ant-Tx / Tx-Rx Isolation	>70dB / >60dB / >80dB (typ.)								
Tx-Tx Frequency Spacing	No minimum								
Tx Input Return Loss	20dB typ.								
Rx-Rx Bandwidth	1.2MHz								
Rx System Gain	-10 to +10dB (in 1dB steps)								
Rx LNA Noise Figure	<2dB (1.2dB typ.)								
Rx-Rx Frequency Spacing	No minimum								
Rx Maximum Input Level	-10dBm								
Rx-Rx Isolation	> 18dB								
Rx Output Return Loss	> 20dB								
Impedance	50 ohms (all RF ports)								
	1								

DC Supply Voltage Low, Rx LNA Fail

Dry Relay Form-C (N.C./N.O./CMN)

Tx and Antenna = N (female) Rx Outputs = BNC (female)

2pin 5mm Phoenix (mating plug supplied)

3pin 5mm Phoenix (mating plug supplied)

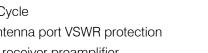
3RU 19in Rack Mount (Black) +11VDC to +28VDC 3.5W typ. (polarity protected)

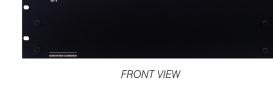
Indoor Use Only

-30° to +60° C (-122° to +140° F)

133x483x430mm (5.23x19x17in)

15Kg (33lbs)







rfi.com.au

Alarms

Alarm Outputs

RF Connectors **DC** Connector

Alarm Connector

DC Power Requirements

Temperature Range

Dimensions (HxWxD)

Enclosure

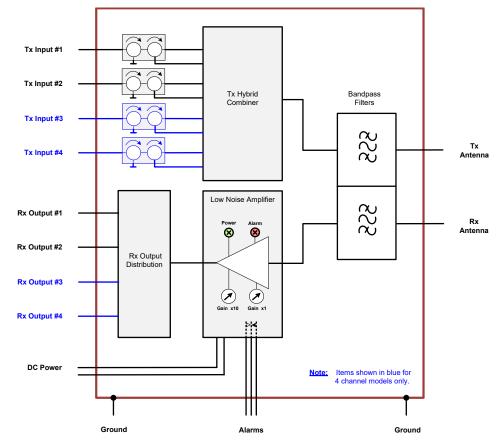
IP Rating

Weight

MiniSystem Combiner 2 Channel Compact Combining System - Dual Antenna Operation - with Rx Preamplifier

340-520MHz MSxxxx-0205-DP Series

Ordering information					
RFI Part Number	Description				
MS3436-0205-DP	MiniSystem Combiner, 340-360MHz, 2 Channel, 50 Watt, Dual Antenna Operation, Preamplifier fitted				
MS3638-0205-DP	MiniSystem Combiner, 360-380MHz, 2 Channel, 50 Watt, Dual Antenna Operation, Preamplifier fitted				
MS3840-0205-DP	MiniSystem Combiner, 380-400MHz, 2 Channel, 50 Watt, Dual Antenna Operation, Preamplifier fitted				
MS4043-0205-DP	MiniSystem Combiner, 400-430MHz, 2 Channel, 50 Watt, Dual Antenna Operation, Preamplifier fitted				
MS4345-0205-DP	MiniSystem Combiner, 430-450MHz, 2 Channel, 50 Watt, Dual Antenna Operation, Preamplifier fitted				
MS4547-0205-DP	MiniSystem Combiner, 450-470MHz, 2 Channel, 50 Watt, Dual Antenna Operation, Preamplifier fitted				
MS4750-0205-DP	MiniSystem Combiner, 470-500MHz, 2 Channel, 50 Watt, Dual Antenna Operation, Preamplifier fitted				
MS5052-0205-DP	MiniSystem Combiner, 500-520MHz, 2 Channel, 50 Watt, Dual Antenna Operation, Preamplifier fitted				
SP0000-6001-11	BNC 50ohm termination for unused Rx ports				
RX0000-3000-AC	100-240VAC Mains Plug Pack Power Supply				



MiniSystem Combiner (DP Model) Configuration

