



**RADIO FREQUENCY
INDUSTRIES (PTY.) LTD.**

"Simply The Best"

CK No : 2005/006095/07

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24 Hendrik Potgieter Street,
Corner 5th Avenue
ALBERTON NORTH, 1450

P.O. Box 1500
ALBERTON
1450

TRANSMIT AND RECEIVE HYBRID 4 CHANNEL COMBINER (4 X Transmit and 4 X Receive Ports)



- The RFi Hybrid Transmit & Receive Combiner range is one of the most versatile and compact Transmit & receive combiner systems available.
- The system house a 4 channel transmitter combiner as well as a 4 channel receiver combiner in one '4U' high 19 inch rack tray, this makes the RFi range of combiners unique.
- Our combining system use Ferrite Hybrid technology to combine 4 transmitters.
- The receiver combiner uses a low noise amplifier with adjustable gain.
- The use of our combiner system reduces the number of antennas used on the mast
- Our system use dual stage isolators on each transmit channel to eliminate adjacent channel interference.

Manufacturers of : Two-Way Radio Antennas, Duplexers, Filters, Combiners, Splitters, Lightning protectors & other RF Products.
Sales and Distribution of: Two-Way Radios, Repeater Systems, Power Meters, Microphones, Power Supplies, Cables & Connectors.



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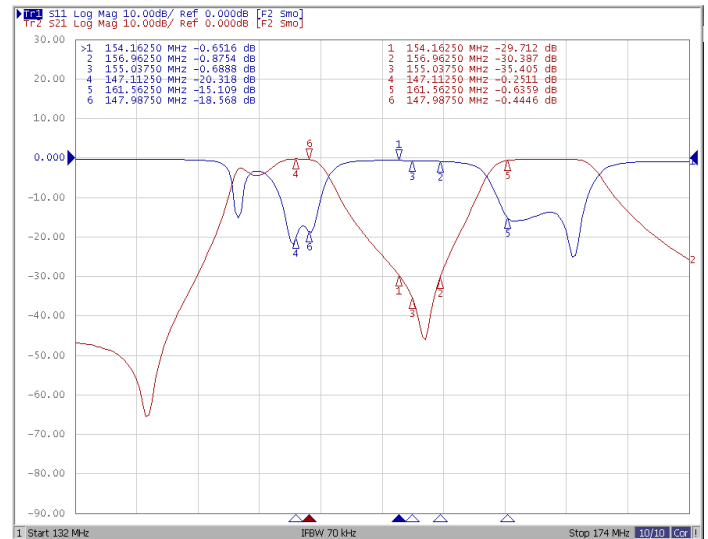
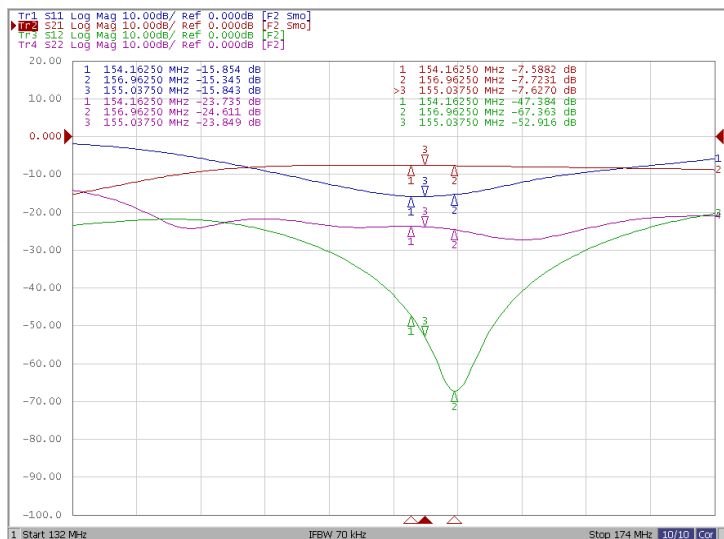
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SPECIFICATIONS

ELECTRICAL		TRANSMITTER COMBINER		RECEIVE COMBINER	
MODEL NUMBER		TMC-4P-VHF-2	TMC-4P-UHF-2	VHF	UHF
FREQUENCY BAND		138 TO 174 MHz	380 TO 470 MHz	138 To 174 MHz	380 To 470 MHz
BANDWIDTH		5 MHz	10 MHz	2 To 3 MHz	5 MHz
NO. OF CHANNELS		4		4	
PORT TO PORT ISOLATION		≥70dB		≥20dB	
GAIN or INSERTION LOSS		≥ Minus 7.5dB		-1.5 To +3dB	
INPUT VSWR		≤1.3:1		≤1.5:1	
MAXIMUM INPUT POWER		125 WATT			
MAXIMUM REFLECTED POWER PER CHANNEL		75 WATT			
ANTENNA TO TRANSMIT ISOLATION		60dB			
3 RD ORDER INTERCEPT				+34dBm	
OPERATING VOLTAGE				12 -15 v DC	
TERMINATION		N FEMALE		N FEMALE	
MECHANICAL					
OPERATING TEMPERATURE		-10° TO +60°			
PACKAGE WIDTH		560mm			
PACKAGE HEIGHT		250mm			
PACKAGE DEPTH		580mm			
PACKAGE WEIGHT		23KG			
VOLUME		56X25X58 CM			
FINISH		GRAY POWDER COATED			

TYPICAL TRANSMIT CHANNEL & RECEIVE CHANNEL RESULTS



Frequencies need to be supplied at the time of quotation and ordering to determine system engineering.

Please note that any number of channels can be combined.

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