



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

*"Simply The Best"*

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 ALBERTON NORTH, 1450

P.O. Box 1500  
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 1450

# DU-450LP BAND REJECT DUPLEXER 400 TO 470 MHz.

The Rfi "Band Reject Duplexers" are constructed utilizing 6 cavity resonators.

Both Transmit and Receive frequencies are combined into one output (antenna) port.

The compact size makes fitment easy in any high-site application, utilising minimal space.

All units utilize high quality "N" type female connectors for best possible performance.

Insertion losses are minimal, and Isolation (Rejection) and match (Return loss) are excellent and tuneable across the band, on both narrow and wide split applications. Therefore eliminating the need for sub banded units covering only certain portions of the band.

No PCB or any electronics are used to achieve the required results. This allows the units to be much more stable at high power usage and minimise possible failures due to electronic component failures.



PRODUCT CODE	DP-450LP
Operating Frequency In MHz.	400 To 470 MHz.
Minimum Band Separation In MHz.	4.0 MHz.
Maximum Band Separation mHz.	20 MHz.
Maximum Insertion Loss In dB	≤1.2 dB
Minimum Isolation In dB	≤80 dB
Maximum VSWR	≤1.4:1
Maximum Return Loss In dB	≤15.4 dB
Impedance "Z" In Ohm (Ω)	50 Ω
Maximum Power At 50% Duty Cycle In Watt	50 Watt
Maximum Power At 60% Duty Cycle In Watt	40 Watt
Maximum Power At 100% Duty Cycle In Watt	30 Watt
Minimum Operating Temperature In Centigrade	-25°
Maximum Operating Temperature In Centigrade	+65°
Connector Fitted On Low Port	"N" Type Female
Connector fitted On High Port	"N" Type Female
Connector fitted On Antenna Port	"N" Type Female
Product Height In mm	34 mm
Product Width In mm	155 mm
Product Length In mm	226 mm
Packaging Volume (H X W X L + Weight)	72X190X260mm/1.0kg.

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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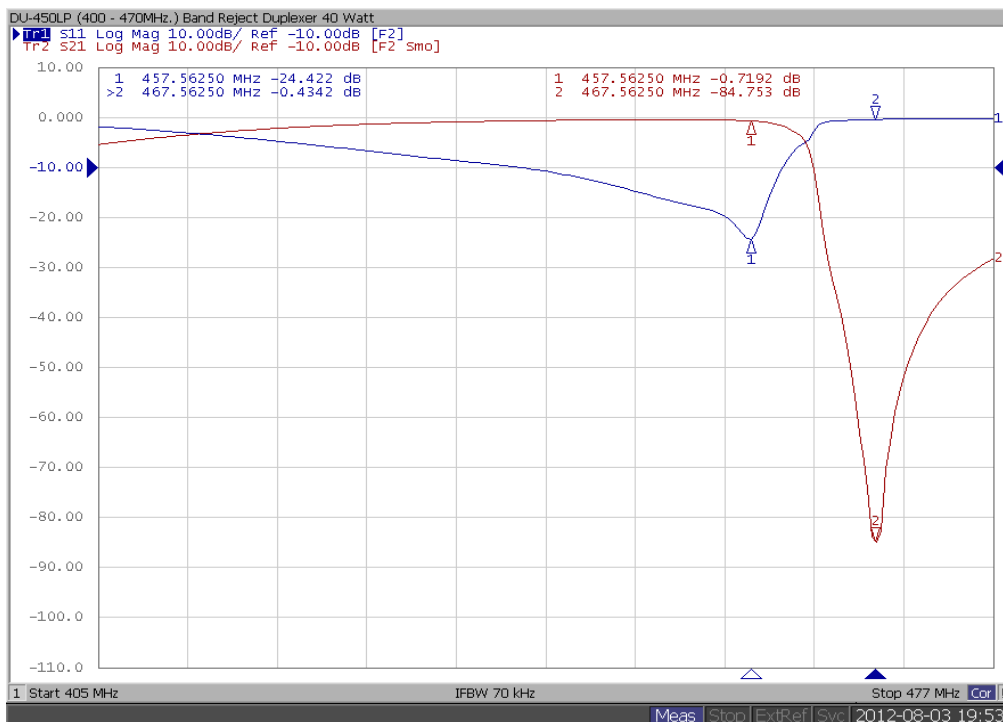
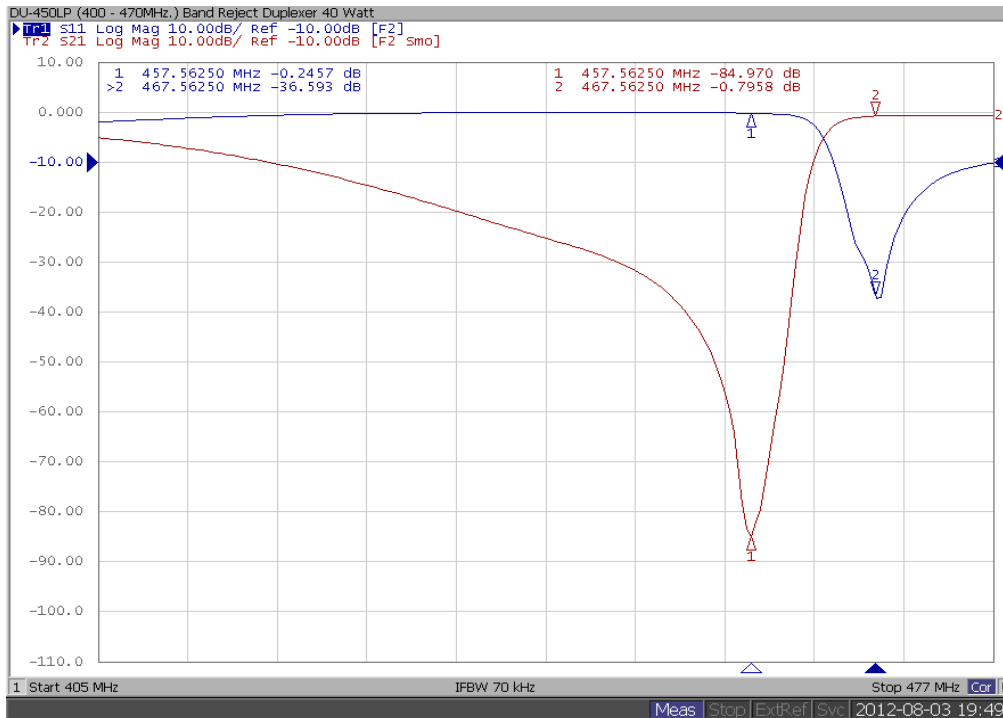
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## TYPICAL TUNING RESULTS



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