

VHF Mobile Duplexer, 144-154MHz, Hybrid

### Product Description

RFS's 636-6 Series uses three capacitively tuned, temperature compensated helical resonators in the receiver channel and three more in the transmit channel. The resonators are housed in a compact 6063-T6 irridite aluminum extrusion that is painted for additional protection.



636-6A Series

### Features/Benefits

- **Low loss – Maximizes system performance.**
- **High isolation – Minimizes interference.**
- **Unique construction – For low loss and system stability.**

### Technical Specifications

Frequency Band	100 MHz - 174 MHz
Application	VHF
Type	Mobile
Frequency Spacing, MHz	4.5
Tx to Rx Isolation, dB	75 or greater
Insertion Loss, dB	1.2
Frequency Range, MHz	144-154
Tx/Rx Bandwidth, MHz	0.025
Connector Type	Hybrid
Rack Mount	No
Tx Bandwidth, MHz	0.025
Rx Bandwidth, MHz	0.025
Continuous Power Input, Max., Watts	50
Insertion Loss, Tx - Ant., dB	1.2
Insertion Loss, Rx - Ant., dB	1.2
Tx Noise Suppression at Rx Frequency, dB	80
Rx Isolation at Tx Frequency, dB	80
VSWR, Max. (50 ohms)	1.5:1
Connectors - Ant. Port	N-Female
Connectors - Tx Port	BNC-Female
Connectors - Rx Port	BNC-Female
Temperature Range, °C (°F)	-30 to +60 (-22 to +140)
Height, mm (in)	31.8 (1-1/4)
Width, mm (in)	159 (6-1/4 )
Depth, mm (in)	216 (8-1/2 )
Mounts in 19" (483mm) EIA Rack (Yes/No)	No
Weight, kg (lb)	1 (2.2)

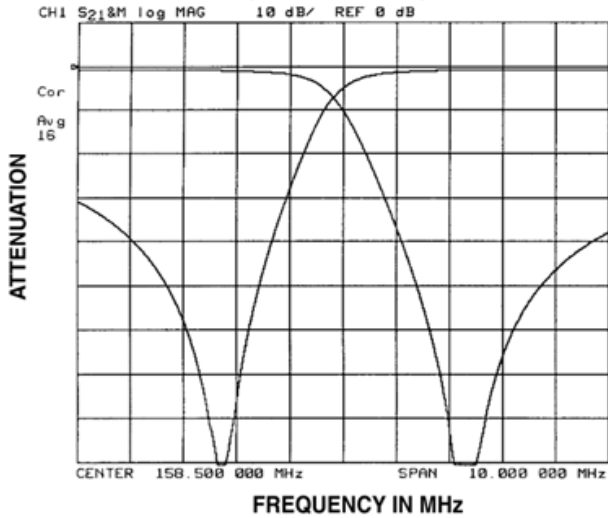
### Notes

### Other Documentation



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636-6A RESPONSE CURVES (Typical)  
4.5 MHz SPACING  
(136-174 MHz)



Response Curve

All information contained in the present datasheet is subject to confirmation at time of ordering