



UHF Mobile Duplexer, 406-450MHz, N-Female

### Product Description

The 633-6A series Mobile Duplexer uses six capacitively tuned TEM resonators in a compact extruded 6063-T6 aluminum housing. The aluminum is irridite and the entire unit painted for additional protection. Specifications are given here for 5 MHz and 10 MHz separations. The 633-A Mobile Duplexer uses four resonators and cabling similar to 633-6A. The two additional cavities provide the added isolation required in some systems. Both duplexers use solid shield copper jacketed Teflon intercabling for low loss.



633-6A Series

### Features/Benefits

- **Low loss – Maximizes system performance.**
- **High isolation – Minimizes interference.**
- **Compact – Minimizes space requirements.**

### Technical Specifications

Frequency Band	380 MHz - 512 MHz
Application	UHF
Type	Mobile
Frequency Spacing, MHz	10
Tx to Rx Isolation, dB	75 or greater
Insertion Loss, dB	1.2
Frequency Range, MHz	406-450
Tx/Rx Bandwidth, MHz	0.025
Connector Type	N-Female
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)	1.3:1
Connectors - Ant. Port	N-Female
Connectors - Tx Port	N-Female
Connectors - Rx Port	N-Female
Temperature Range, °C (°F)	-30 to +60 (-22 to +140)
Height, mm (in)	31.8 (1-1/4)
Width, mm (in)	157 (6-3/16)
Depth, mm (in)	228 (9)
Mounts in 19" (483mm) EIA Rack (Yes/No)	No
Weight, kg (lb)	1.7 (3.5)

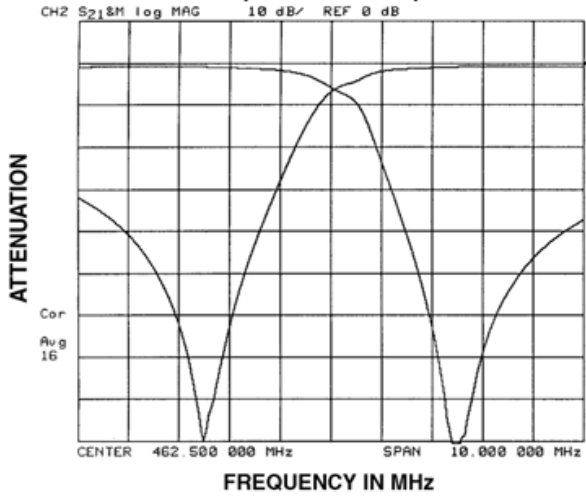
### Notes

### Other Documentation



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633-6A-5N RESPONSE CURVES (Typical)  
5 MHz SPACING  
(406-512 MHz)



Response Curve

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