



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) | 241 (9-1/2) |
| Mounts in 19" (483mm) EIA Rack (Yes/No) | No |
| Weight, kg (lb) | 1.7 (3.5) |

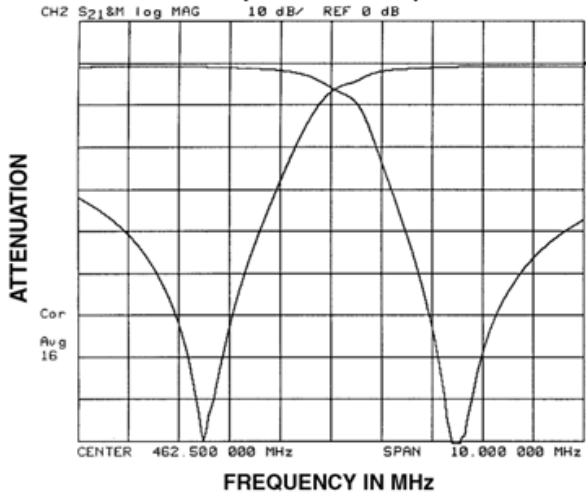
Notes

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