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.

**FEATURES / BENEFITS**
- Low loss - Maximizes system performance.
- High isolation - Minimizes interference.
- Compact - Minimizes space requirements.

### Technical Features

**GENERAL SPECIFICATIONS**
- Tech. Application: UHF
- Type: Mobile

**ELECTRICAL SPECIFICATIONS**
- Frequency Band: MHz 380 - 512
- Frequency Spacing: MHz 5.0
- Tx to Rx Isolation: dB 75 or greater
- Insertion Loss: dB 1.4
- Frequency Range: MHz 406 - 450
- Tx/Rx Bandwidth: MHz 0.025
- Tx Bandwidth: MHz 0.025
- Rx Bandwidth: MHz 0.025
- Continuous Power Input: Watts 50.0
- Insertion Loss, Tx - Ant.: dB 1.4
- Insertion Loss, Rx - Ant.: dB 1.4
- Tx Noise Suppression at Rx Frequency: dB 75.0
- Rx Isolation at Tx Frequency: dB 75.0
- VSWR Max. (50 ohms): 1.3:1

**MECHANICAL SPECIFICATIONS**
- Connector Type: N-Female
- Rack Mount: No
- Connectors - Ant. Port: N-Female
- Connectors - Tx Port: N-Female
- Connectors - Rx Port: N-Female
- 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: No
- Weight: kg (lb) 1.7 (3.5)

**TEMPERATURE SPECIFICATIONS**
- Temperature Range: °C (°F) -30 to 60 (-22 to 140)
UHF Mobile Duplexer, 406-450MHz, N-Female

Response Curve

External Document Links  Notes