

## 50W VHF Mobile Duplexer

**Model: 6MC450-50    400 -520MHz    50Watts**



Compact duplexer 6MC450-50 is meant to provide frequency isolation between transmitting and receiving channels. Combining small geometry with low loss and close frequency spacing with selective pass characteristics this duplexer is ideal for use in systems with low-to-medium power repeaters where small physical dimensions of equipment are critical.

### Features

- Compacted 6 high quality aluminium cavity
- Designed to meet environmental requirements of MIL-DTL-3933.
- Low loss and high isolation.

MECHANICAL SPECIFICATIONS	
CONNECTORS	Brass Nickel Plated
PIN	Brass Silver Plate
HOUSING	Aluminium, Black Anodize
INSULATOR	PTFE Virgin Electrical Grade
DIMENSIONS	225 x 190 x 40mm
OPERATING TEMP.	-20° C to +50° C
WEIGHT kg /(oz)	1.6kg

RoHS compliant: Yes

### ELECTRICAL SPECIFICATIONS

Items	Specifications		
Frequency range: (MHz)	400 -520		
Frequency spacing: (MHz)	5	10	15
Frequency bandwidth: (KHz)	±400	±500	±500
Insertion loss: (dB)	≤1.0	≤0.7	≤0.65
VSWR:	≤1.3		
Isolation: (dB)	>75		
Input power (max.) Watts	50		
Connector:	N type Female / BNC (female)		

Note: It's more stable electrical performance than lower power duplexer for repeater used in outer door environment.

**Nominal impedance: 50Ω**

### Notes:

- 1) Dimensions Tolerance ±5%
- 2) Dimension and specifications refer to connector type N unless otherwise specified
- 3) Customer designs available for other special frequency spacing and accuracy.

## TEST REPORT

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