50W VHF Mobile Duplexer

Model: 6MC150-50 135 -175MHz 50Watts



Compact duplexer 6MC150-50 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)	1.7kg

RoHS compliant: Yes

ELECTRICAL SPECIFICATIONS

Items	Specifications		
Frequency range: (MHz)	**135 -175**		
Frequency spacing: (MHz)	3.5	5.7	15
Frequency bandwidth: (KHz)	±150	±200	±200
Insertion loss: (dB)	<1.2	<1.0	<1.0
VSWR:	<1.3		
Isolation: (dB)	>75 (BW) / >90 (Single frequency)		
Input power (max.) Watts	50		
Connector:	N type Female		

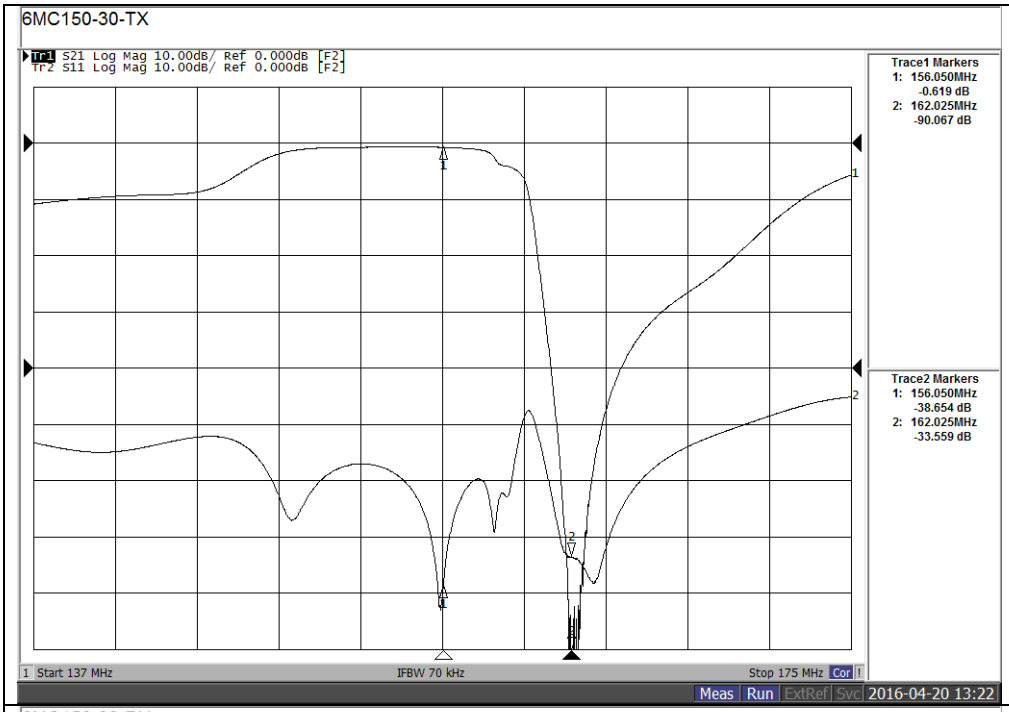
Nominal impedance: 50Ω

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

Model: 6MC150-30 135 -175MHz 30Watts



TX:

IL: -0.62dB
RL: -38dB

RX:

ISOLATION: -90dB

RL: -33dB



RX:

IL: -0.73dB
RL: -33.5dB

TX:

ISOLATION: -81dB

RL: -39.5dB