

MLCBF4652DH

Difference Band Pass Filter For 36.52-56.52MHz



Difference Band Pass Filter

For 36.52-56.52MHz

MLCBF4652DH

10 x 6.5mm

All Use For RF & Microwave

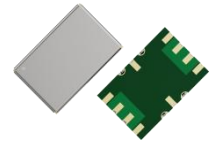
MLCBF4652DH

Difference Band Pass Filter For 36.52-56.52MHz



Applications

- 1, Satellite navigation anti-jamming system
- 2, Missile-borne devices



FEATURES

- 1, Impact and overload resistance with high reliability
- 2, Fully differential structure, eliminating the need for on-board transformers
- 3, 100% domestically produced

DESCRIPTION

The MLCBF4652DH features a fully differential structure, eliminating the need for on-board transformers. This design reduces conversion losses, enhancing channel performance and system reliability, which makes these filters well suited for satellite navigation anti-jamming system. All components are 100% RF tested.

MAXIMUM RATINGS

Parameter	Ratings	Units
RF Power (in BW)	30	dBm
Operating Temperature Range	-55~+105	°C
Storage Temperature Range	-55~+125	°C

ELECTRICAL CHARACTERISTICS

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	36.52~56.52	-	3	5.5
Central Frequency Amplitude Consistency (dB)	46.52		0.3	0.5
Central Frequency Phase Consistency (deg)	46.52		8	16
Differential Impedance between pin 2 and 3 (Ω)			200	
Differential Impedance between pin 7 and 8 (Ω)			50	
VSWR	36.52~56.52	-	1.5	2
Attenuation (dB)	16.52~26.52	40	50	-
	66.52~76.52	40	50	-
Characteristics Impedance (Ω)			50 (Nominal)	

- Ta: +25±5°C

All Use For RF & Microwave

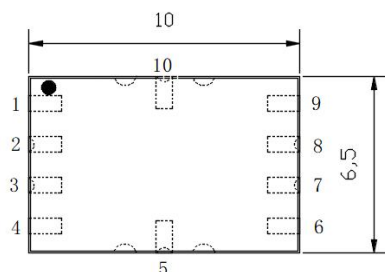
MLCBF4652DH

Difference Band Pass Filter For 36.52-56.52MHz

MECSINE 兆讯

SHAPES AND DIMENSIONS

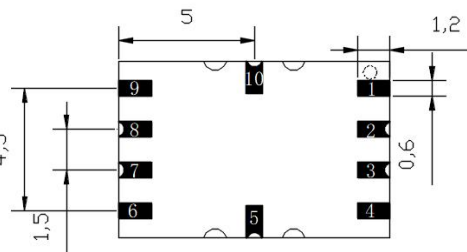
Top View



Side View



Bottom View

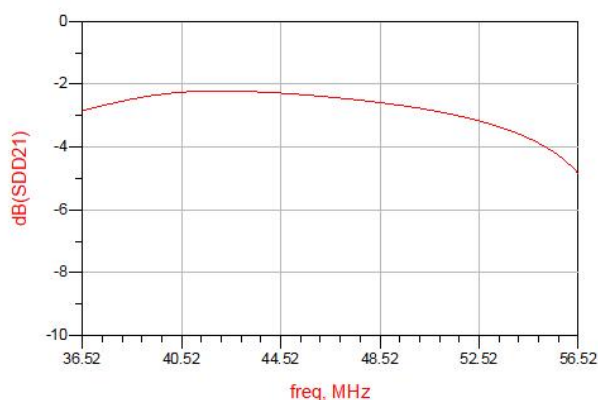


Unit: mm TOL:±0.2mm

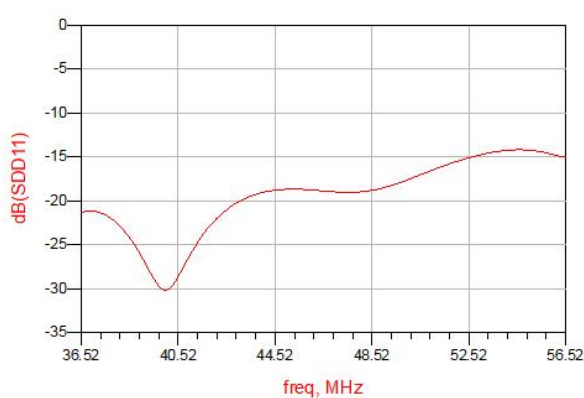
Port	Definition	Function
2	RF1+	Differential Signal Input/Output
3	RF1-	Differential Signal Input/Output
7	RF2-	Differential Signal Input/Output
8	RF2+	Differential Signal Input/Output
1/4/5/6/9/10	GND	Ground

FREQUENCY CHARACTERISTICS

Insertion Loss



Return Loss

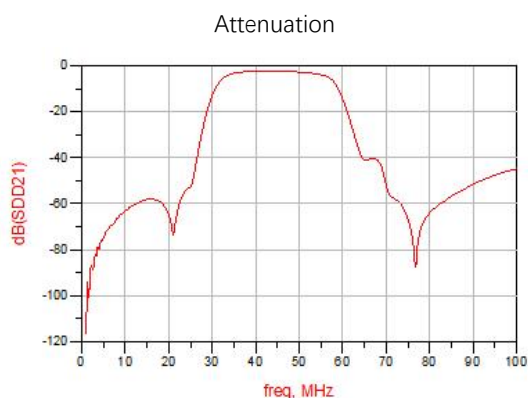


All Use For RF & Microwave

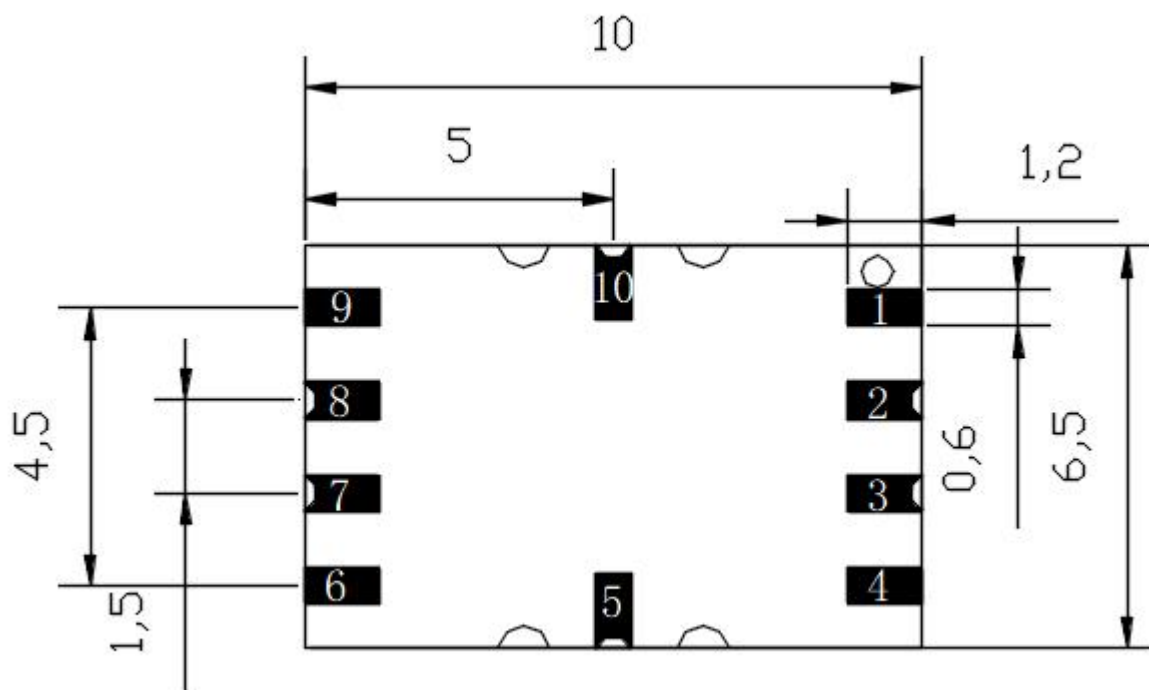
MLCBF4652DH

Difference Band Pass Filter For 36.52-56.52MHz

MECSINE 兆讯



RECOMMENDED LAND PATTERN AND EVALUATION BOARD



Revision	Description	Date
Rev0	Preliminary	2026/03/02
Rev1	Update	2026/7/16
Rev2	Update	2026/08/10

All Use For RF & Microwave