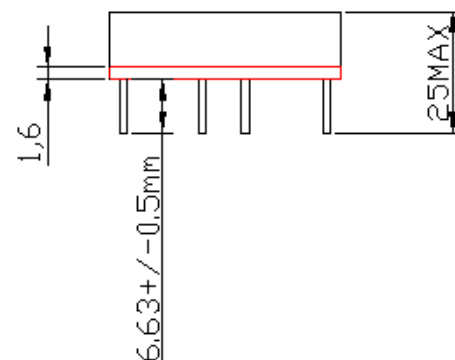
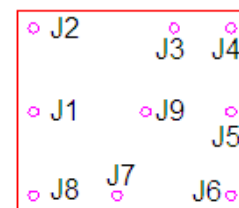
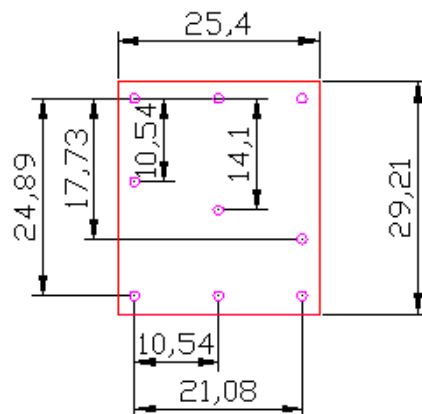


Feature:

- Surface mount
- 10pcs per/box
- CATV Applications
- RoHS* compliant

DOCSIS 3.0

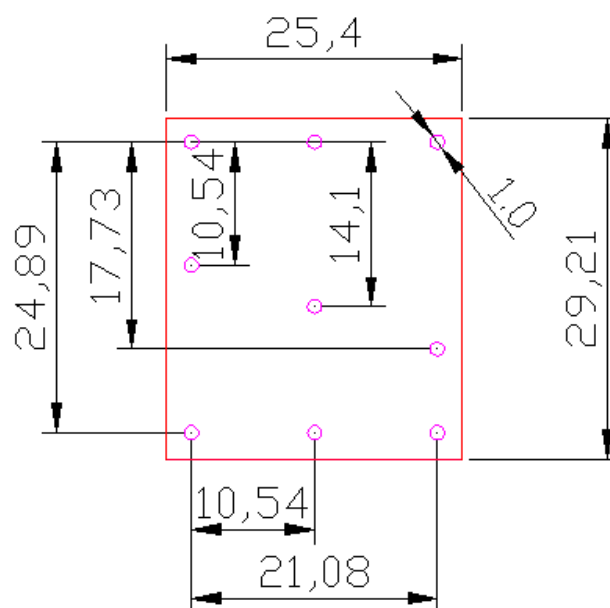


Tolerance ± 0.1 Unit mm

Diplex filter

Top view

Schematic



Suggest pcb design

Tolerance ± 0.1 Unit mm

PIN CONFIGURATION

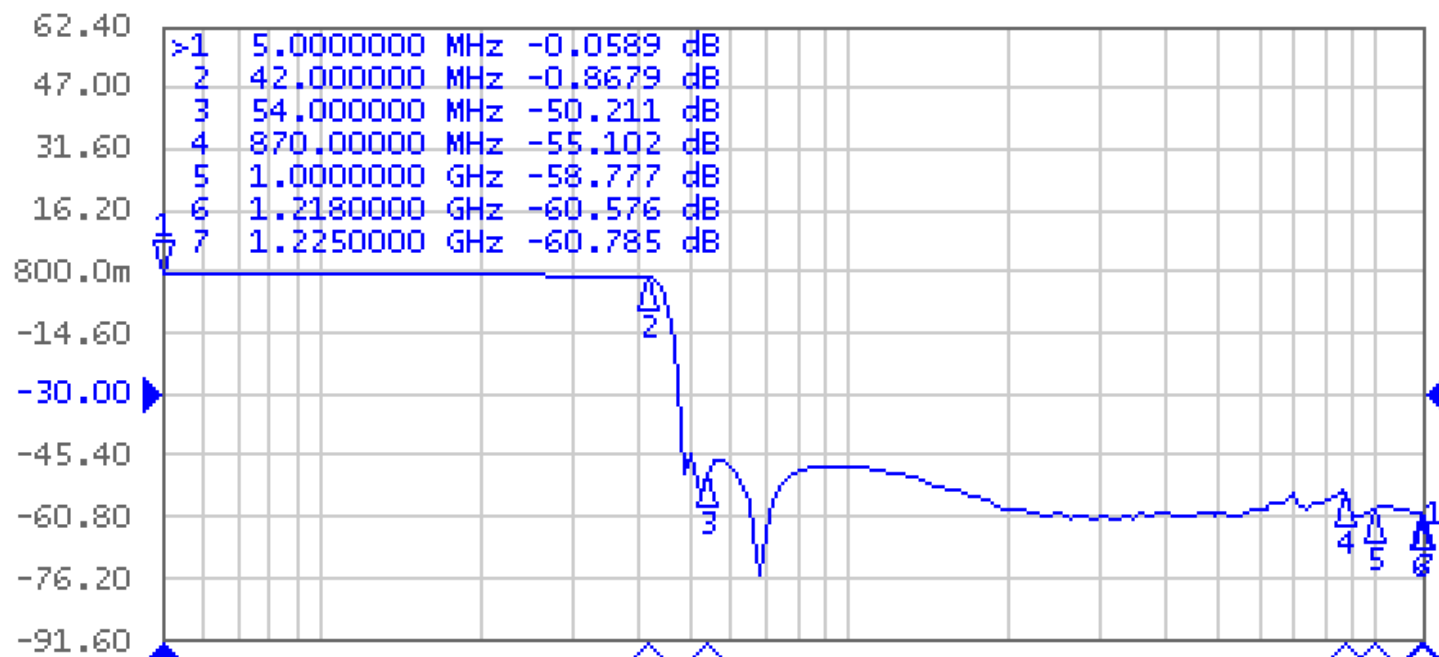
Diplexer	
Pin Number	Function
J1	RF Common Port Connection
J4	RF Low Port Connection relative to pin J1
J6	RF High Port Connection relative to pin J1
J2, J3, J5, J7, J8, J9,	Ground

Electrical Specifications: TA=25°C, Zo=75Ω					
Parameter	Test Conditions	Units	Min.	Typ.	Max.
Common to Low Pass Port	5-42MHz	dB	---	0.5	0.9
Common to High Pass Port	54-1250MHz	dB	---	0.75	1.0
Insertion Loss Flatness	5-42MHz	dB	---	---	0.5
Isolation	5-42MHz	dB	45	50	---
	42-54MHz	dB	41	---	---
	54-1250MHz	dB	45	50	---
Return Loss Input	5-42MHz	dB	24	28	---
	54-1250MHz	dB	24	25	---
Return Loss Output	5-42MHz	dB	22	28	---
	54-1250MHz	dB	22	25	---
RF Power Rating (max)		250mw			
DC Current Rating (max)		30mA			
Test Impedance (50Ω, 75Ω, etc.)		75OHM			
Operating Temperature		-40°C to +85°C			
Storage Temperature		-40°C to +85°C			

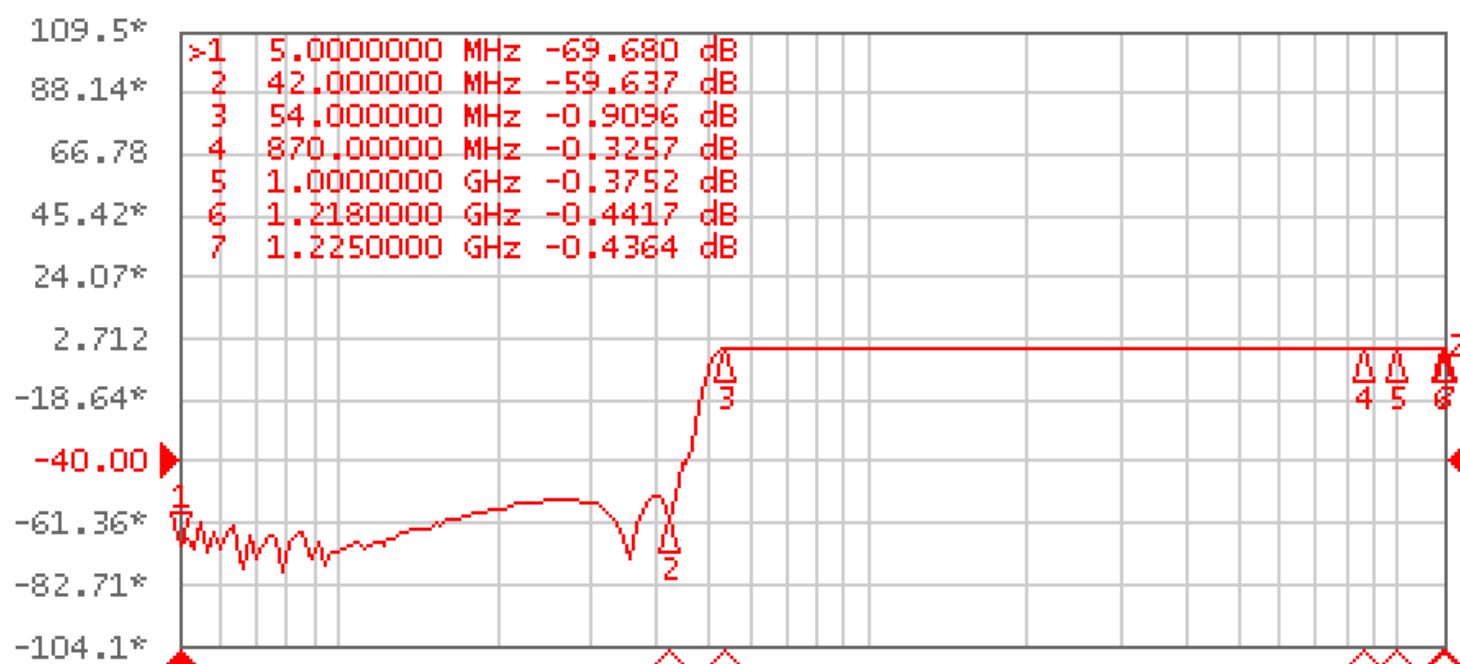
Actual test parameter.

Common to low pass

Tr1 S21 Log Mag 15.40dB/ Ref -30.00dB [F3]

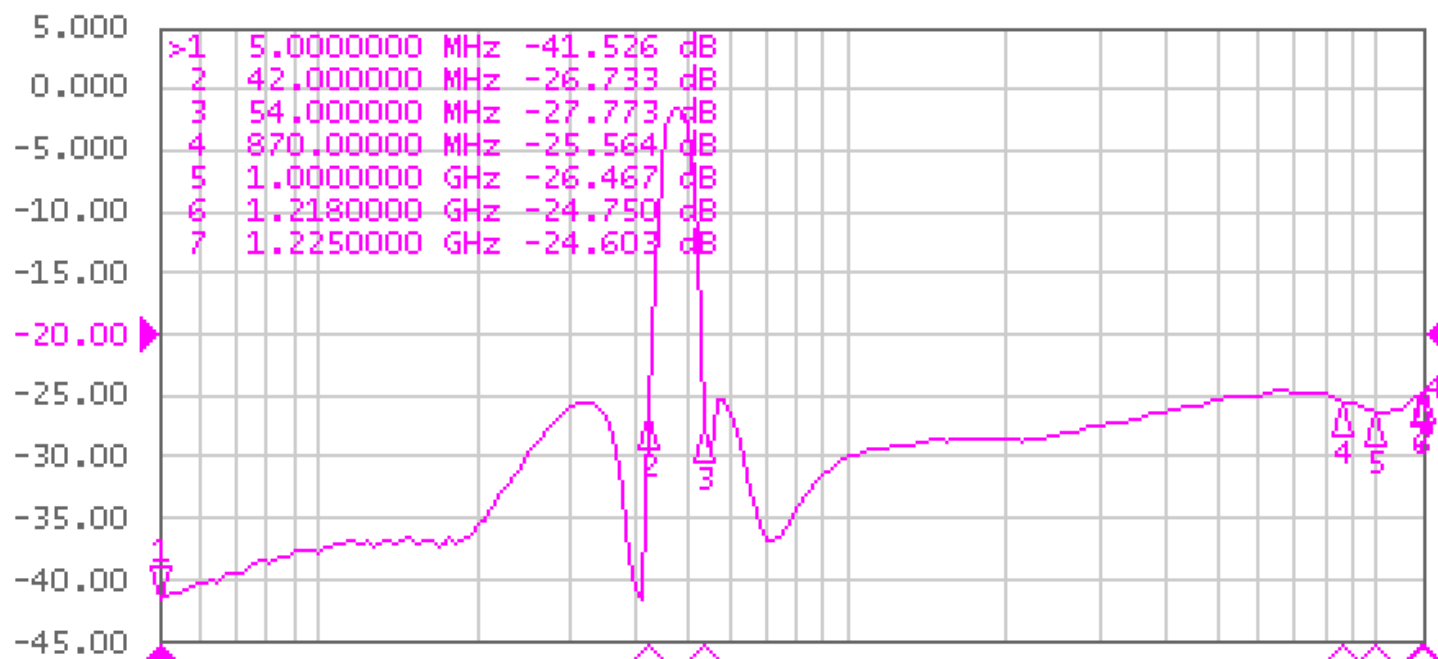


Common to high pass



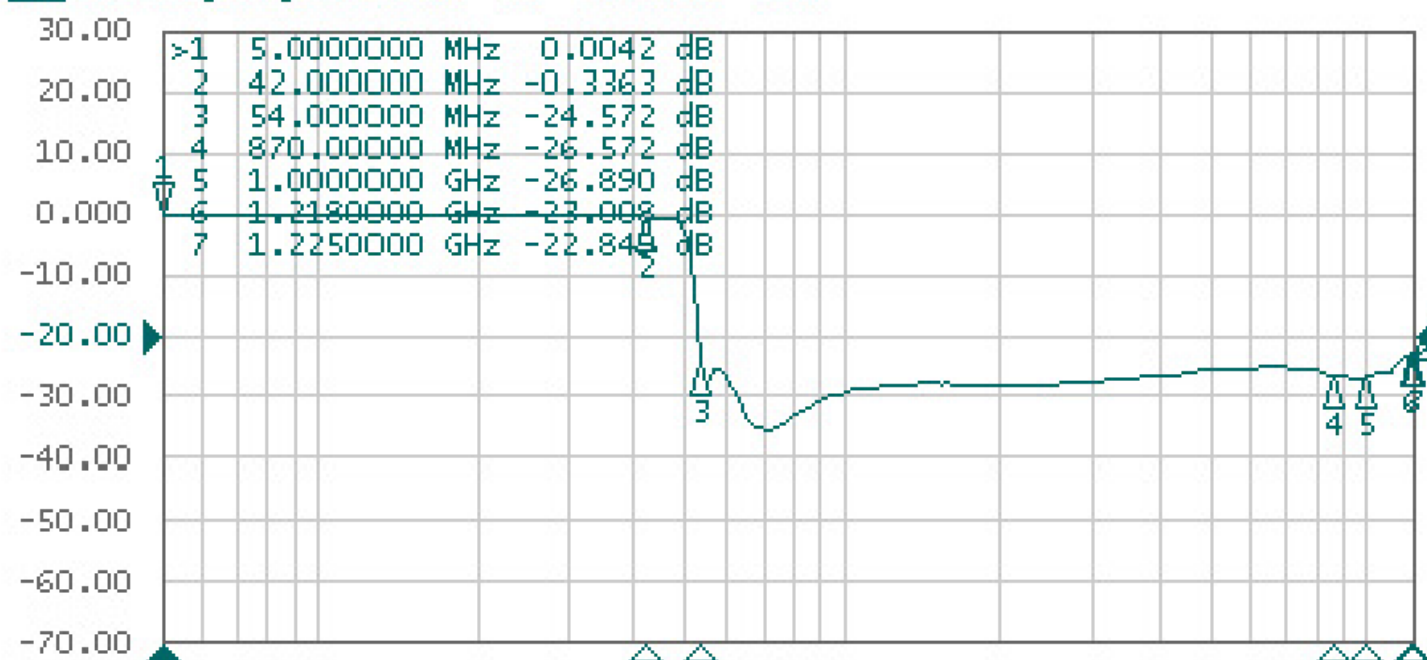
Input return loss

Tr4 S11 Log Mag 5.000dB/ Ref -20.00dB [F3]



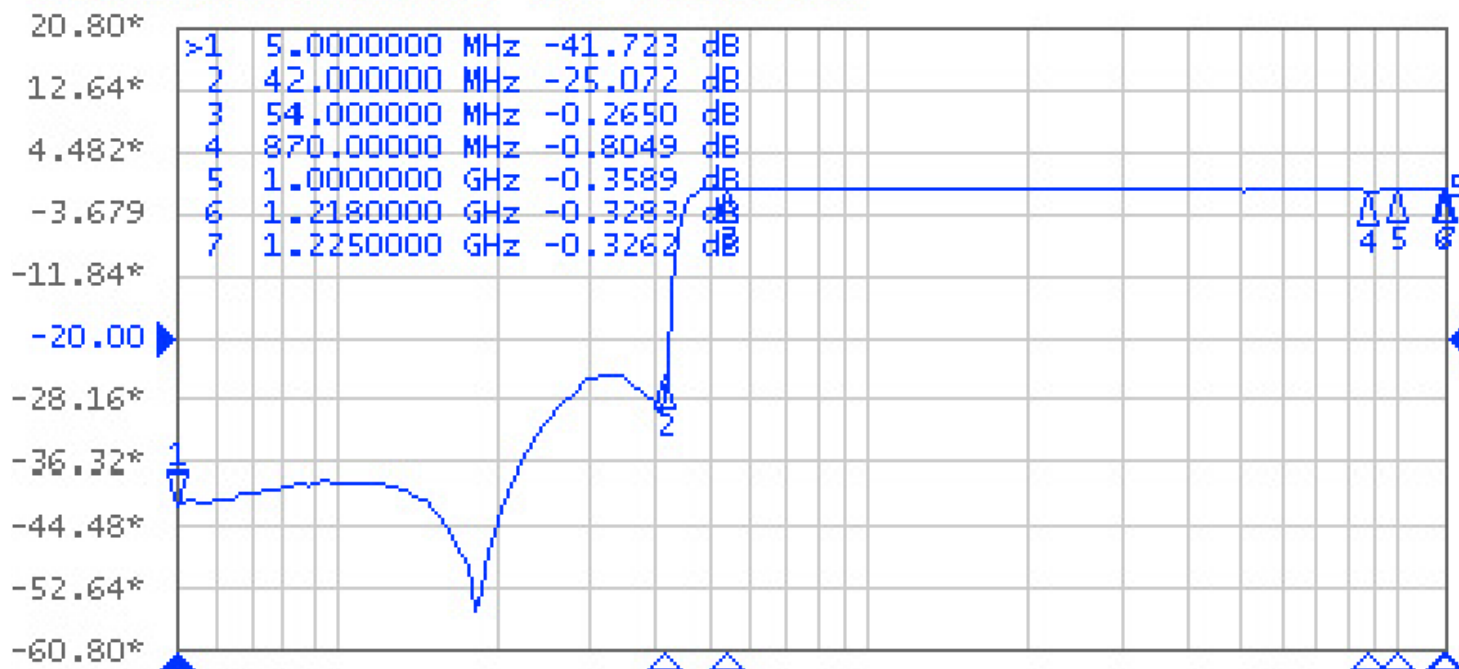
High Pass Filter Output Return Loss

Tr6 S33 Log Mag 10.00dB/ Ref -20.00dB [F3]



Low Pass Filter Output Return Loss

Tr5 S22 Log Mag 8.161*dB/ Ref -20.00dB [F3]



Isolation

Tr3 S32 Log Mag 10.00dB/ Ref -70.00dB [F3]

