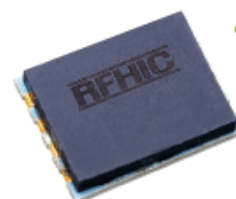


Product Features

- MCM Sub-Module
- High Dynamic Range
- Digital Control
- Chip on Board
- Low Current & Low Insertion Loss
- Low Cost
- 50 or 75 Ohms

Application

- Tuner
- Digital TV
- Cable Set - Top Box
- BroadBand System Set - Top - Box
- Camcorder
- DVD
- Trunk Amp



CL-38 Package
14x11x2.9mm

Specifications

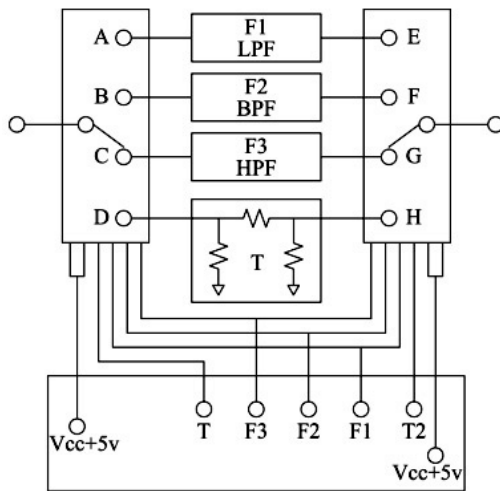
(Operating Temperature: -40°C~+100°C)

NO	ITEMS	SF8700			Unit	Remarks
		Min	Typ	Max		
1-1	Input Frequency	45 ~ 870			MHz	
1-2	Input Impedance		75		Ω	
1-3	Output Frequency	F1 40-270 F2 270-470 F3 470-870			MHz	
1-4	Insertion Loss	F1 1.0 F2 2.5 F3 1.5 T2 30			dB	
1-5	In/Out Return Loss		-15		dB	
1-7	Rejection@ 2f		-25		dB	
1-8	IP3		65		dBm	
1-9	RF Switch	GaAs PHEMT				
1-10	RF Input Power	10			W	

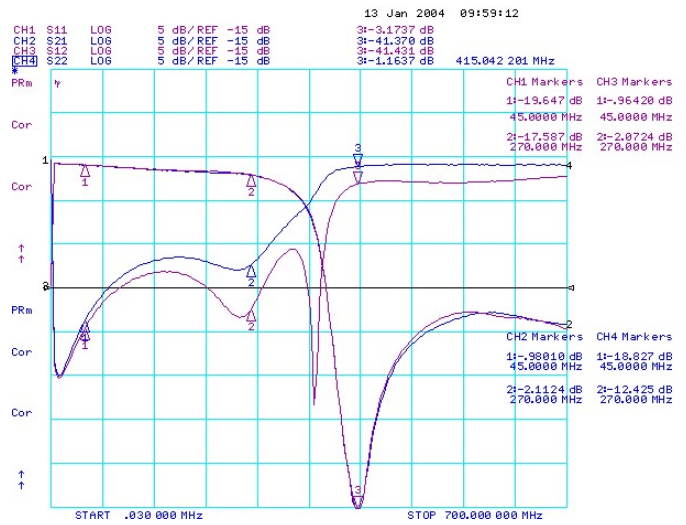
Electrical Specification

2-1	Operating Voltage	Vdc	5.00 ± 1.00			Vdc	
2-2		Control Voltage	5.00 ± 2.00			Vdc	
2-3	Current Consumption	I _t	< 10			μA	
2-4							
2-5	Tuning Circuit		Digital on 5V ± 2 / Off 0~2V				

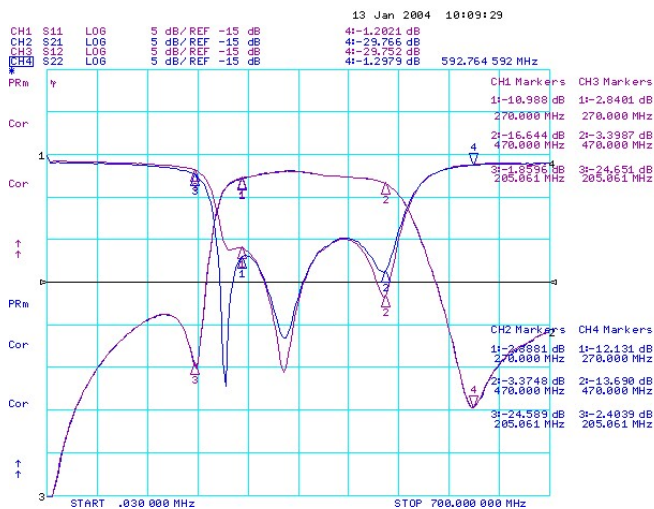
Functional Diagram



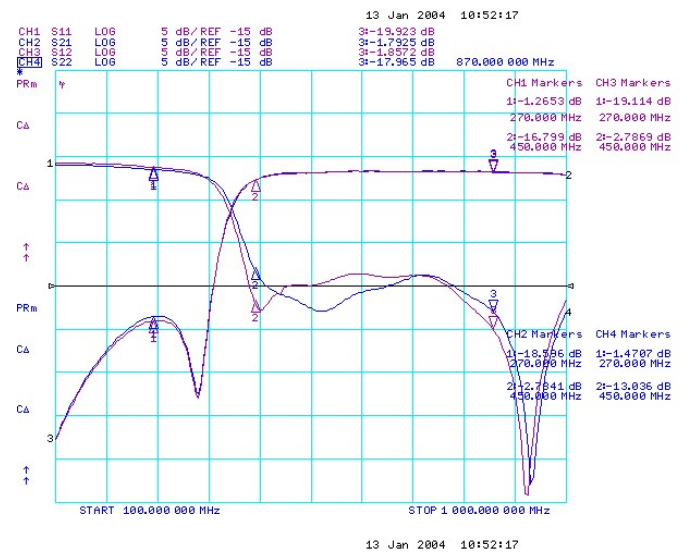
A-E. LPF : BW (~270MHz)



B-F. BPF : BW (270~470MHz)

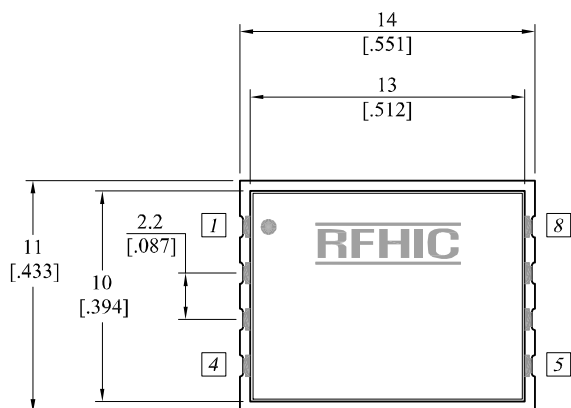


C-G. HPF : BW (470MHz~)



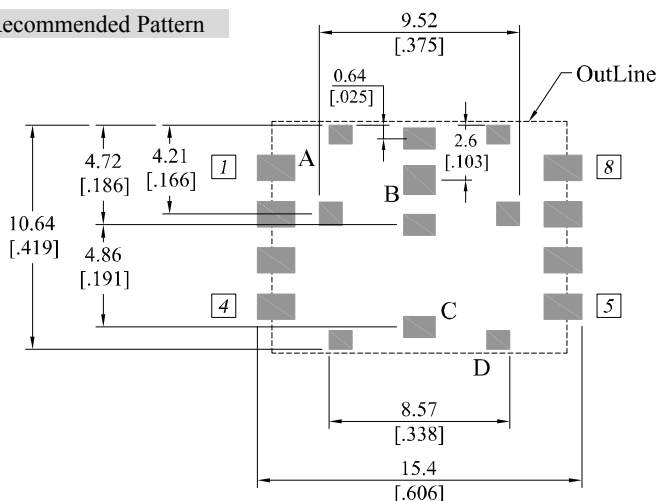
Package Dimensions (Type: CL-38)

Unit : $\frac{\text{mm}}{[\text{inch}]}$	Tolerance : $\pm \frac{0.2}{.008}$
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Pin No.	Function
1	LPF
2	RF_In
3	5V
4	HPF
5	Through
6	BPF
7	RF_Out
8	Ground

Recommended Pattern



Pattern Size WxL		
	mm	inch
A	1.8 x 1.2	.071 x .047
B	1.5 x 1.4	.059 x .055
C	1.5 x 1	.059 x .039
D	1.1 x 0.9	.043 x .035

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