

1. Features

- Ceramic Duplexer
- Usable bandwidth 10 MHz at Fc 1030.0 MHz
- Usable bandwidth 10 MHz at Fc 1090.0 MHz
- RoHS Compliant

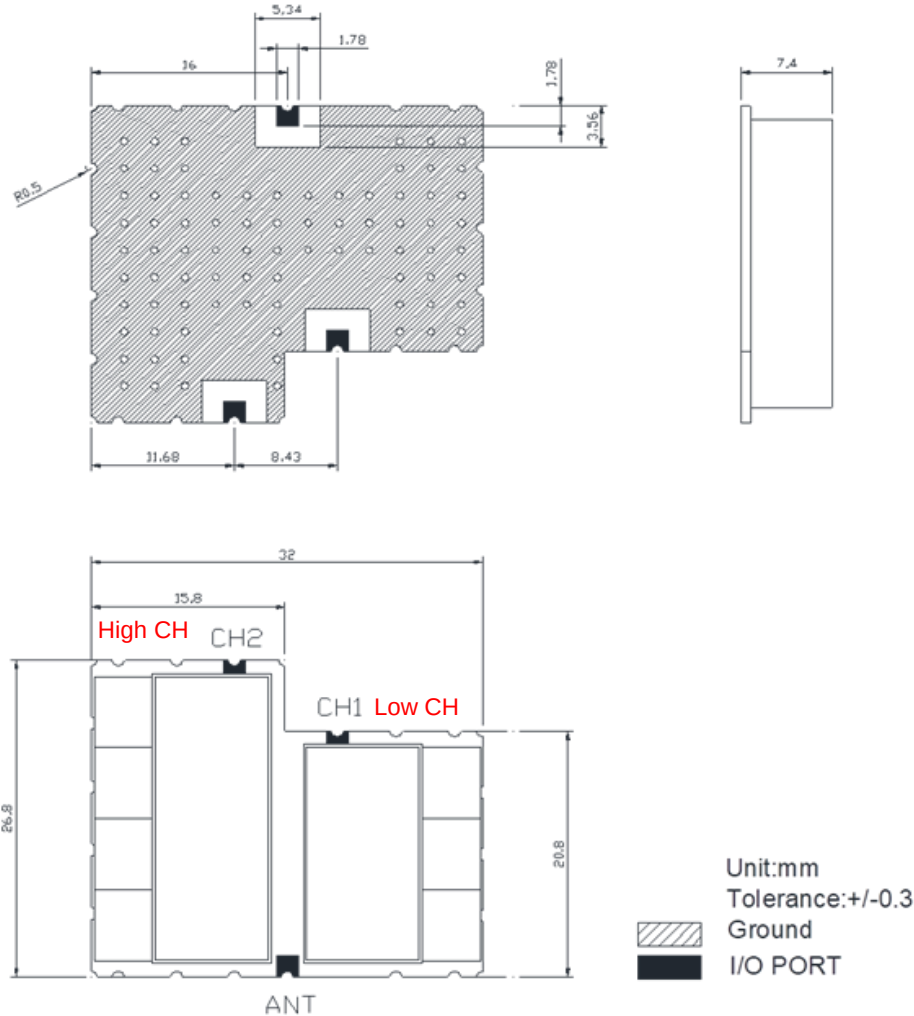
RoHS/RoHS2
(2015/863/EU) Compliant

2. Preliminary Electrical Specifications

ITEMS		Low Channel	High Channel
Center frequency (Fc)		1030 MHz $\pm$ 1MHz	1090 MHz $\pm$ 1MHz
3dB Bandwidth		Fc $\pm$ 8MHz min	Fc $\pm$ 8MHz min
Passband		1025~1035MHz	1085~1095MHz
IL (at Passband)		3.2 dB max	3.7 dB max.
Ripple (at Passband)		0.5dB max	0.5dB max
Return Loss (at Passband)	S11 (ANT)	16dB min	16dB min
	S22 (Low Channel)	16dB min	16dB min
	S33 (High Channel)	16dB min	16dB min
Rejection	@910~1008 MHz	18 dBc min.	
	@ 1052~1150 MHz	18 dBc min.	
	@ 800~910 MHz	50 dBc min.	
	@ 1150~1206 MHz	50 dBc min.	
	@900~1065 MHz		23 dBc min.
	@ 1065~1075		10 dBc min.
	@ 1105~1115 MHz		10 dBc min.
	@ 1115~1206 MHz		23 dBc min.
Group Delay (at Center frequency)		40 $\pm$ 10 nsec	
Group Delay Variation (at Passband)		8 nsec max.	
Power Handling (CW)		30 dBm	
Power Handling (Instantaneous Peak)		40.0 dBm with 1% duty cycle, 1 us pulse width	33.0 dBm with 1% duty cycle, 1 us pulse width
Operating Temperature		-40°C ~ +85 °C	
In/Out Impedance		50 Ω	
ITAR Free		Yes	

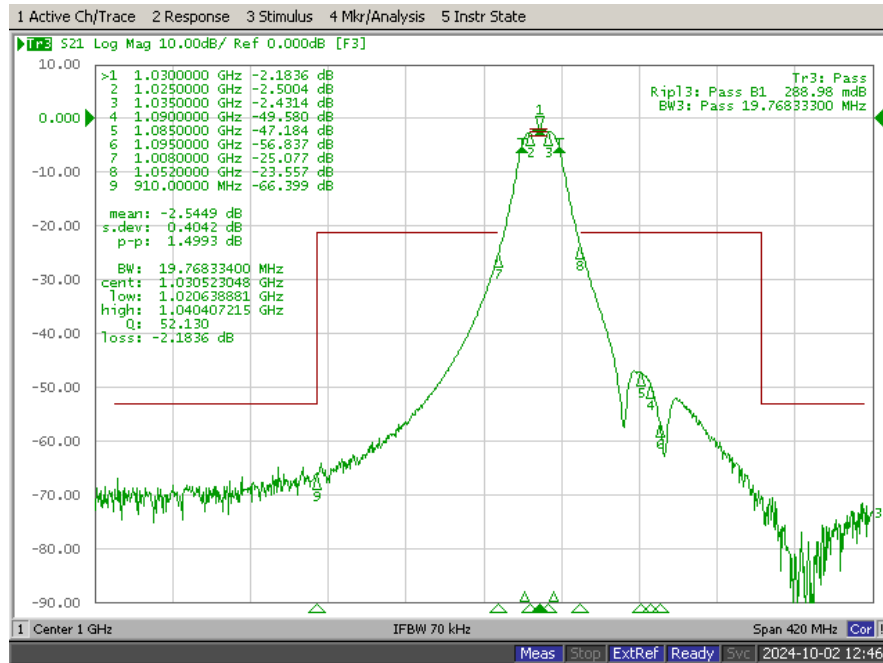
- * All specifications are based on simulation data and ITF reserves the right to amend the specification once sample filters are produced.
- * Actual electrical characteristics may vary due to user's PCB layout and parasitic.
- * Ref. Circuit sim.

3. Dimension

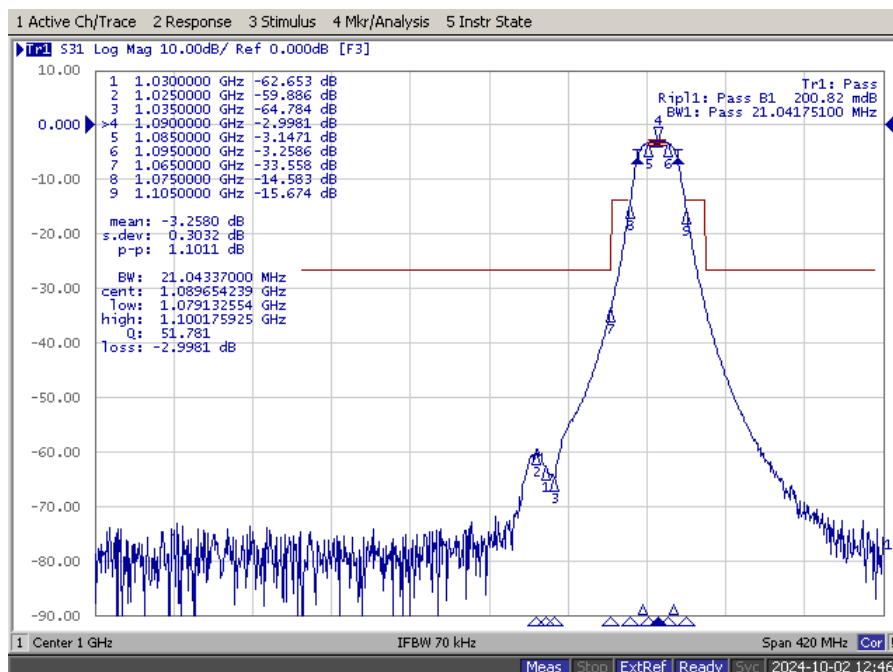


4. Frequency Response (at 25°C)

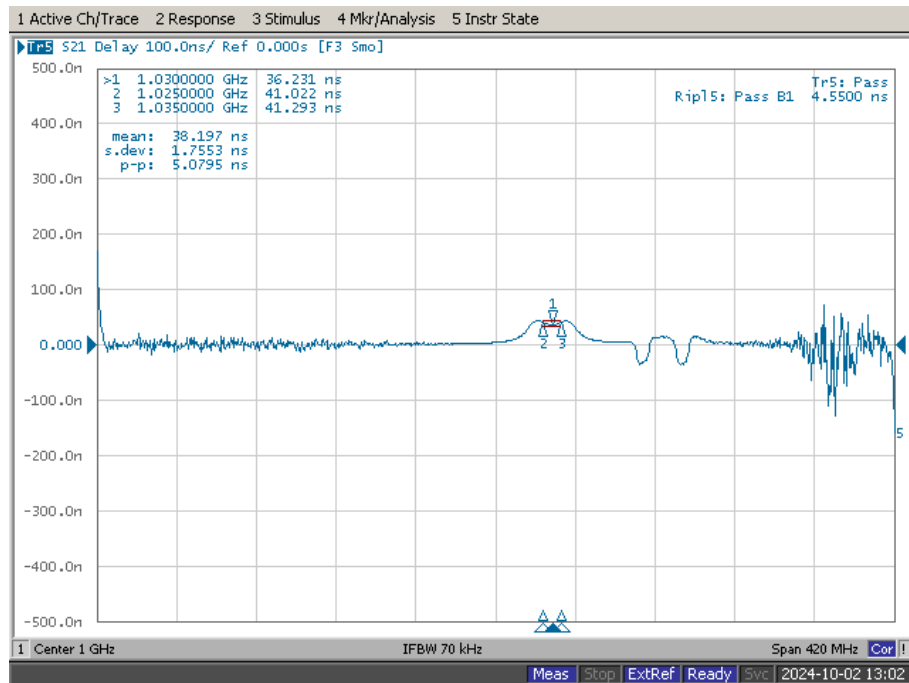
- Insertion Loss & Ripple & Attenuation _Low Channel



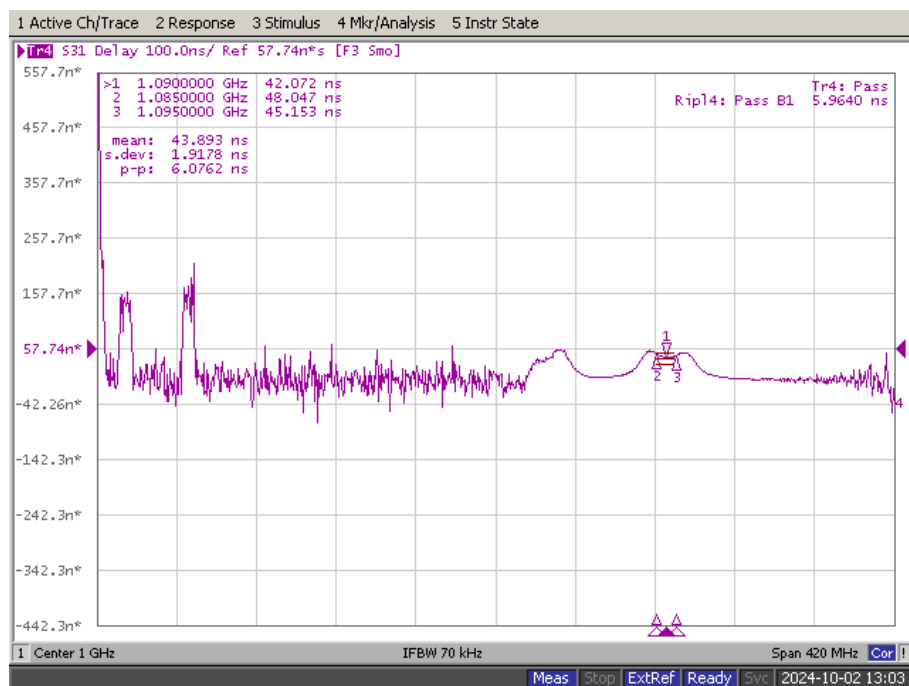
- Insertion Loss & Ripple & Attenuation _High Channel



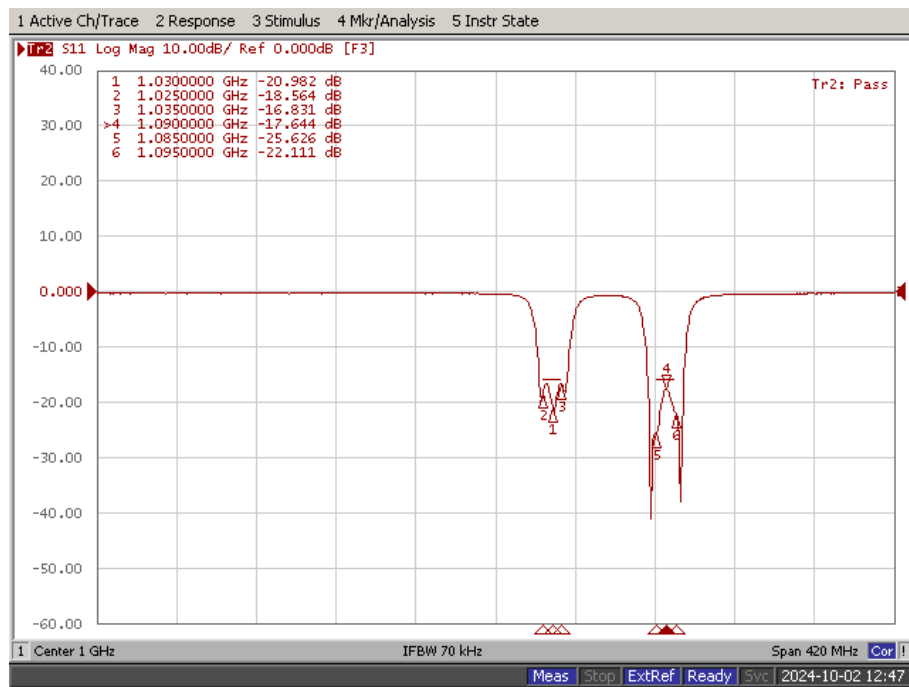
- Group Delay & Variation _Low Channel



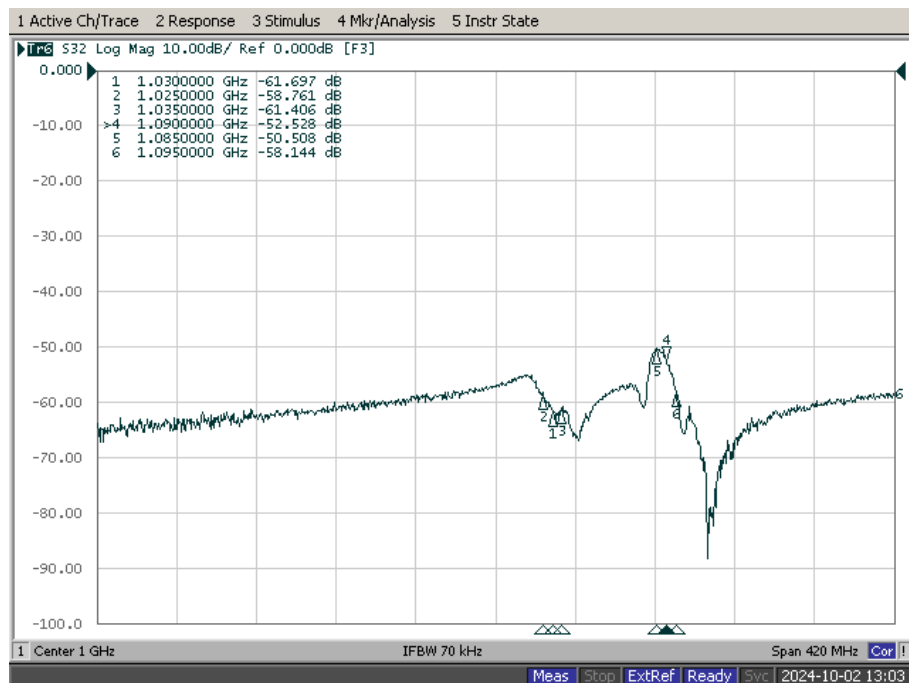
- Group Delay & Variation _High Channel



- Return Loss



- Isolation



5. Product picture

