

XH-F2492C016B2

Features

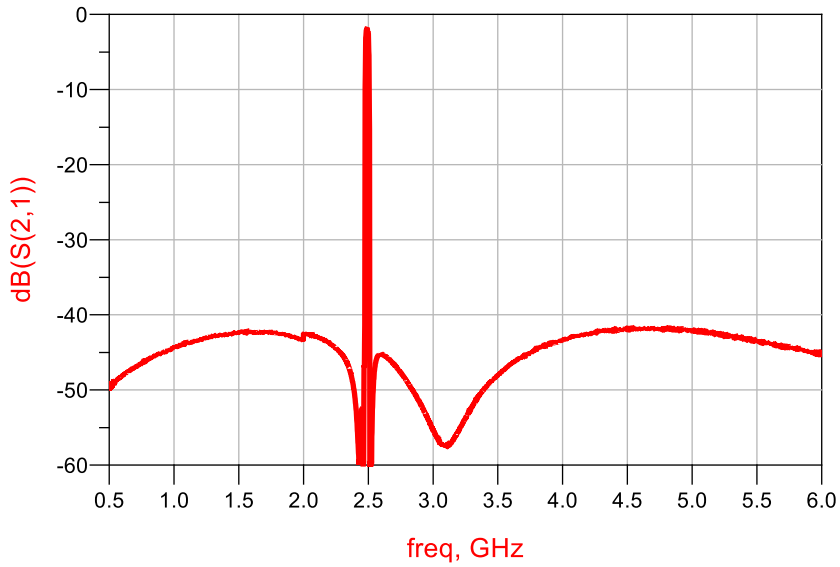
- For 2492MHz BeiDou S Band application
- FBAR(Film Bulk Acoustic Resonator) technology
- Low Insertion Loss
 - ✓ 1.8dB (typical @2492MHz)
- High rejection
 - ✓ 45dB (typical @2470MHz)
 - ✓ 35dB (typical @2510MHz)
- Plastic Chip Scale Package (CSP)
 - ✓ Standard size : 3.0mm*3.0mm*0.6mm
- Moisture Sensitivity: MSL3
- Low Temperature Coefficient of Frequency: < 5ppm/°C

Electrical Specifications, $Z_0=50\Omega$, $T_{SPEC}=-55^{\circ}C\sim+85^{\circ}C$

Parameter		Min. For T_{SPEC}	Typ. @+25°C	Max. For T_{SPEC}	Unit
Center Frequency		\	2492	\	MHz
Insertion Loss(2484 ~ 2500 MHz)		\	2.0	3.5	dB
Ripple(2484 ~ 2500 MHz)		\	0.8	1.6	dB
Return Loss(2484 ~ 2500 MHz)		10	18	\	dB
Group delay ripple(2484 ~ 2500 MHz)		\	\	70	ns
Attenuation	500~2460MHz	37	45	\	dB
	2460~2470MHz	37	50	\	dB
	2510~2520MHz	20	35	\	dB
	2520~3000MHz	38	50	\	dB

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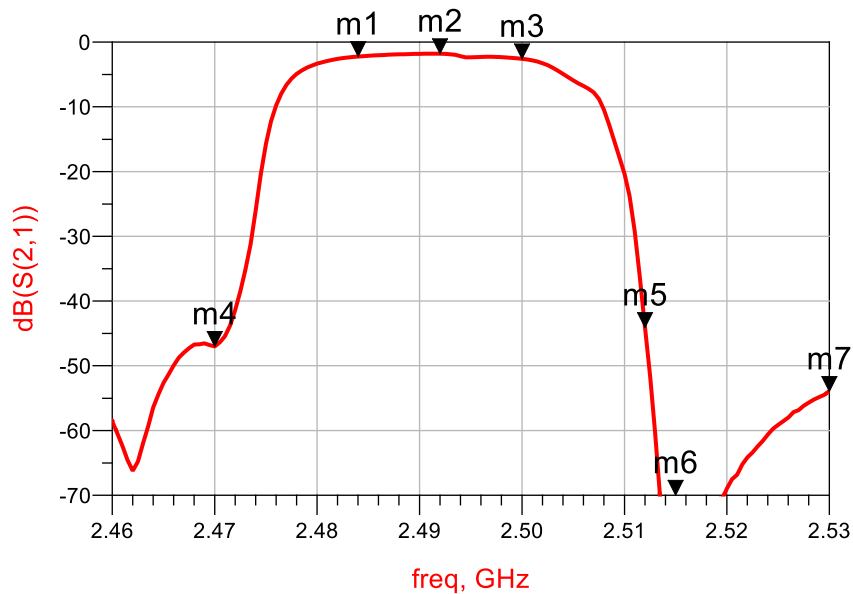
Typical Performance at Tc = 25°C



m1
freq=2.484GHz
dB(S(2,1))=-2.228

m2
freq=2.492GHz
dB(S(2,1))=-1.792

m3
freq=2.500GHz
dB(S(2,1))=-2.586



m4
freq=2.470GHz
dB(S(2,1))=-47.000

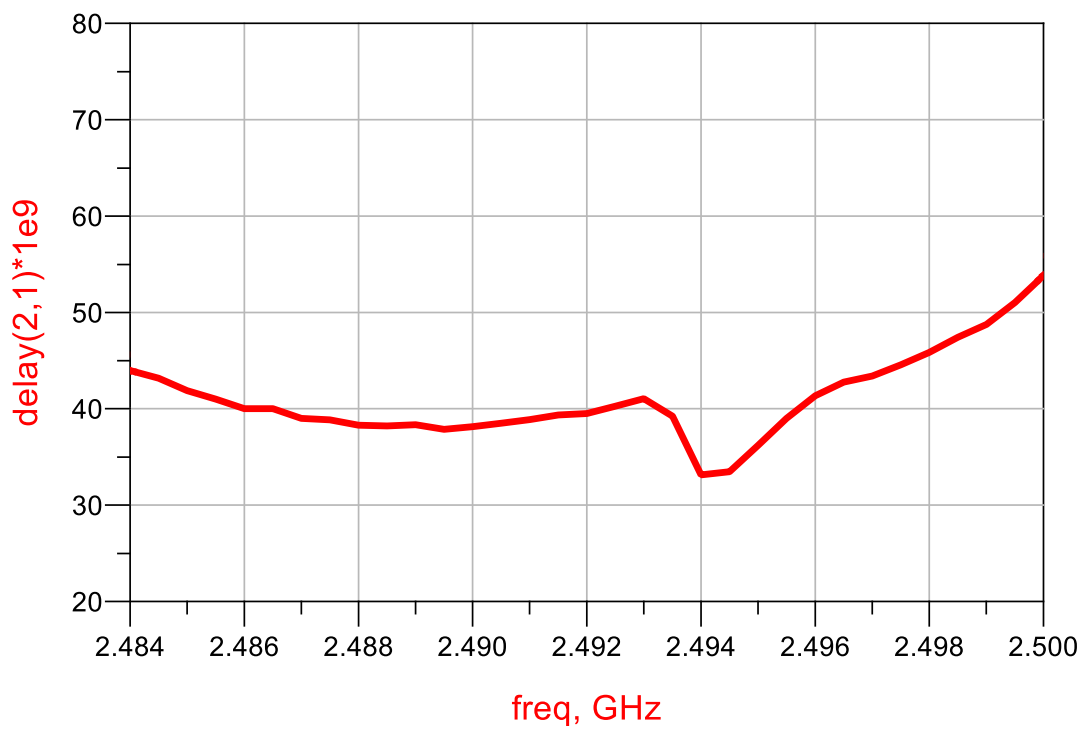
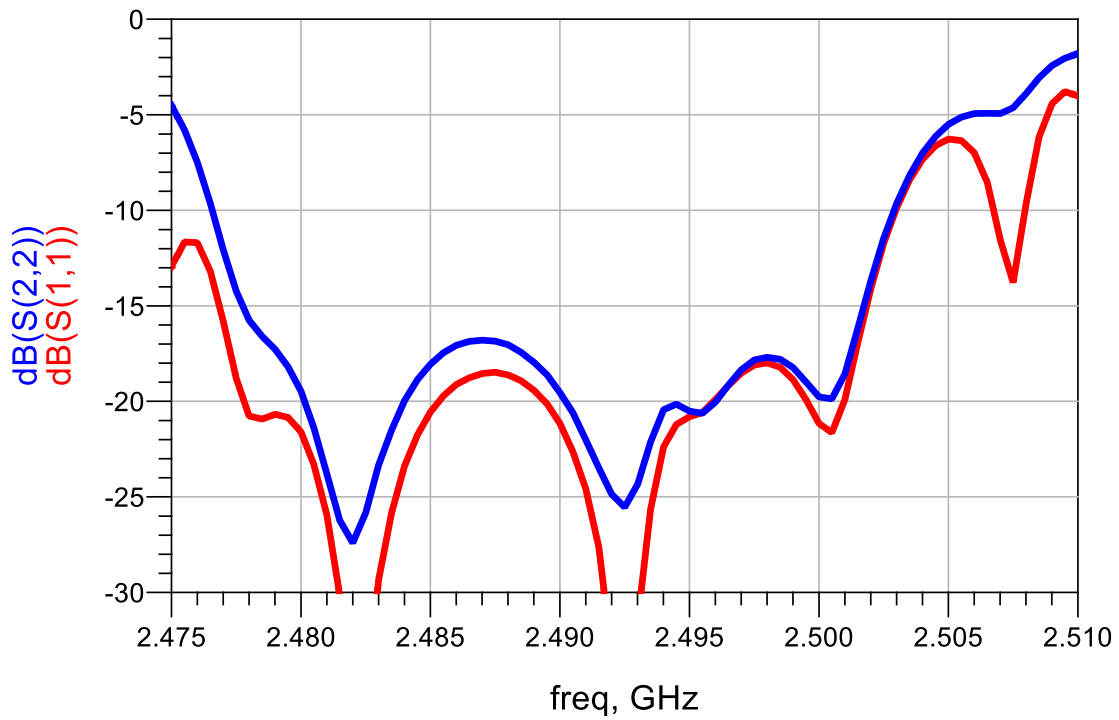
m5
freq=2.512GHz
dB(S(2,1))=-44.093

m6
freq=2.515GHz
dB(S(2,1))=-76.053

m7
freq=2.530GHz
dB(S(2,1))=-53.968

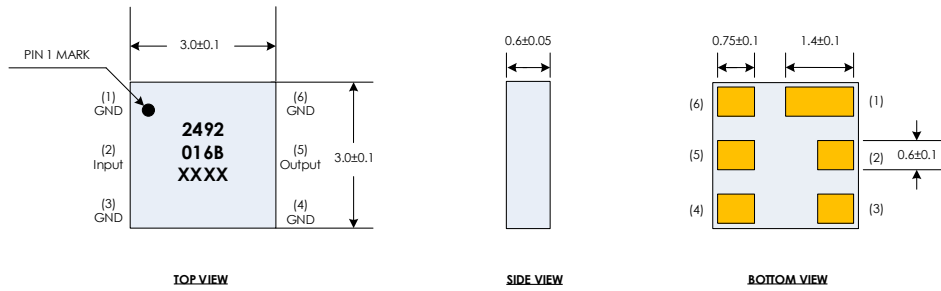
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Outline Drawing(Unit: mm)



Notes:

1. Dimensions in millimeters
2. Contact areas gold plated

2 Input
5 Output
1,3,4,6 GND

Revision History

Revision	Date	Description
A	2024-05-20	Initial document
B	2024-07-26	Update the silk screen printing