

CF1018-A

MAXIMUM RATING:

- Input Power Level: 30 dBm
- DC Voltage : 5V
- Operating Temperature:-40°C to +105°C
- Storage Temperature: -40°C to +105°C
- Moisture Sensitivity Level: 1
- AEC-Q200 Qualified

**2450/5500 MHz
LTCC Filter**

**Package Dimensions
1.6 x 0.8 mm**

ELECTRICAL CHARACTERISTICS:

Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 50 \Omega$

1. Lower Band

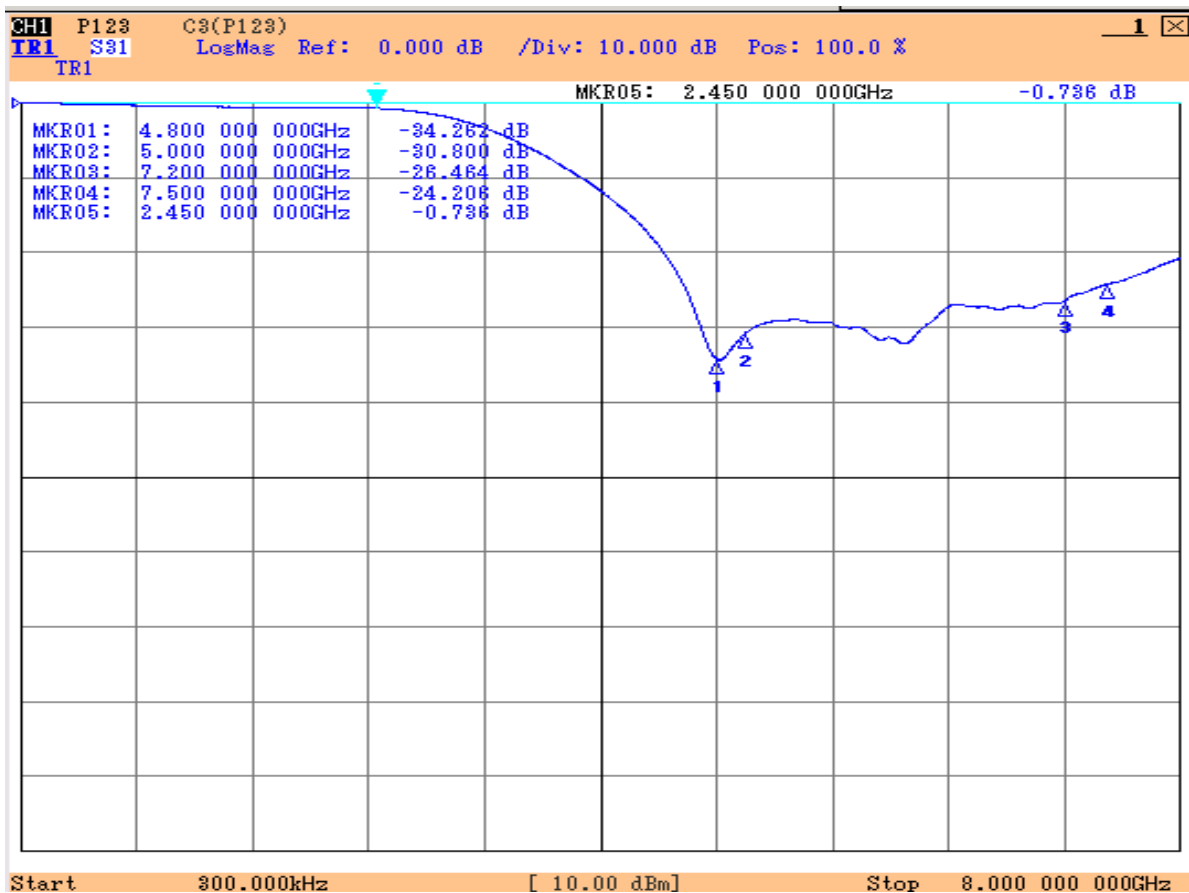
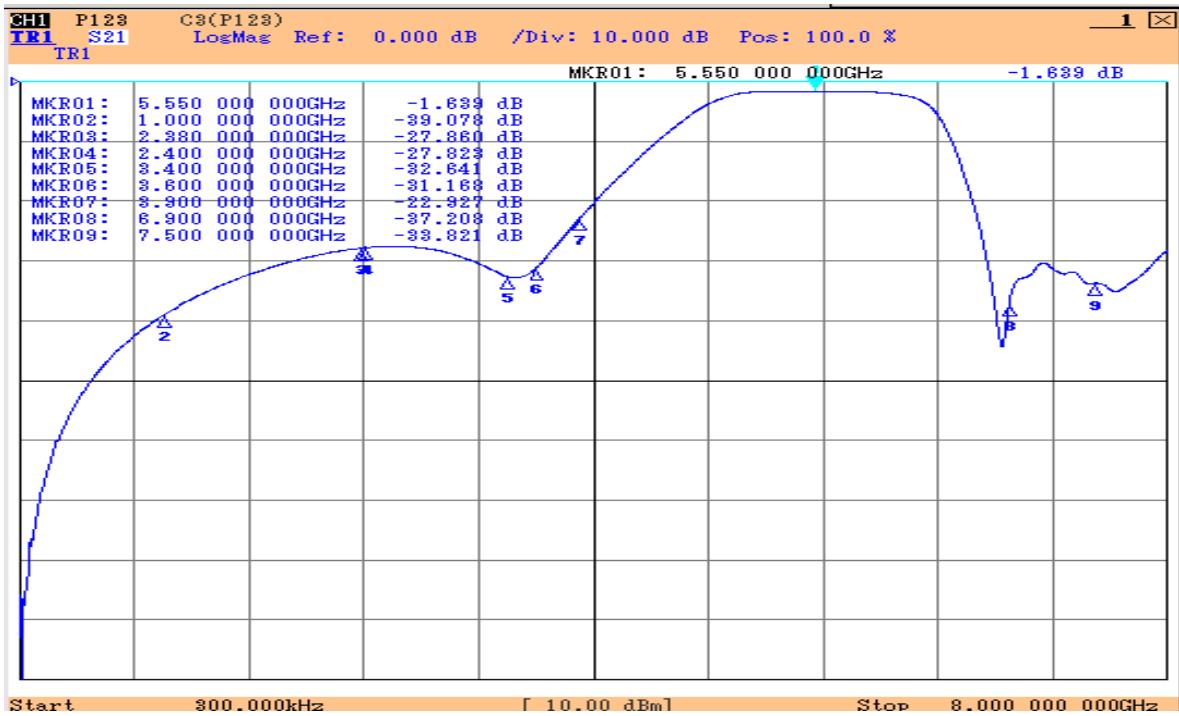
Item	Unit	Spec
Frequency Range	MHz	2450±50
Insertion Loss (2400~2500 MHz) IL	dB	0.8 Max(1)
VSWR (2400~2500 MHz)	dB	2.0 Max
Attenuation (Reference level from 0 dB)		
4800 ~ 5000MHz	dB	25 Min
7200 ~ 7500MHz	dB	30 Min
7500 ~ 12000MHz	dB	20 Min

2. Higher Band

Item	Unit	Spec
Frequency Range	MHz	5500±350
Insertion Loss (5150~5850 MHz) IL	dB	1.6 Max(1)
VSWR (5150~5850 MHz)	dB	2.0 Max
Attenuation (Reference level from 0 dB)		
30 ~ 1000MHz	dB	25 Min
2380MHz	dB	25 Min
2400 ~ 2500MHz	dB	25 Min
3400 ~ 3600MHz	dB	15 Min
3600 ~ 3900MHz	dB	10 Min
6900 ~ 7550MHz	dB	20 Min
7550MHz ~ 10600MHz	dB	30 Min
10600 ~ 11700MHz	dB	30 Min
15300 ~ 16200MHz	dB	20 Min

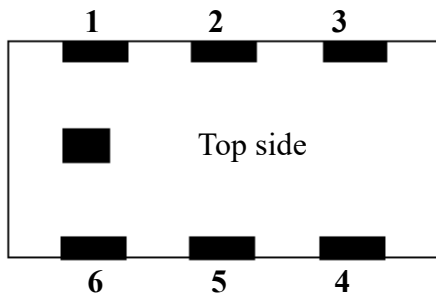
(1)The spec without PCB loss

Frequency Characteristics : (Characteristic curve)

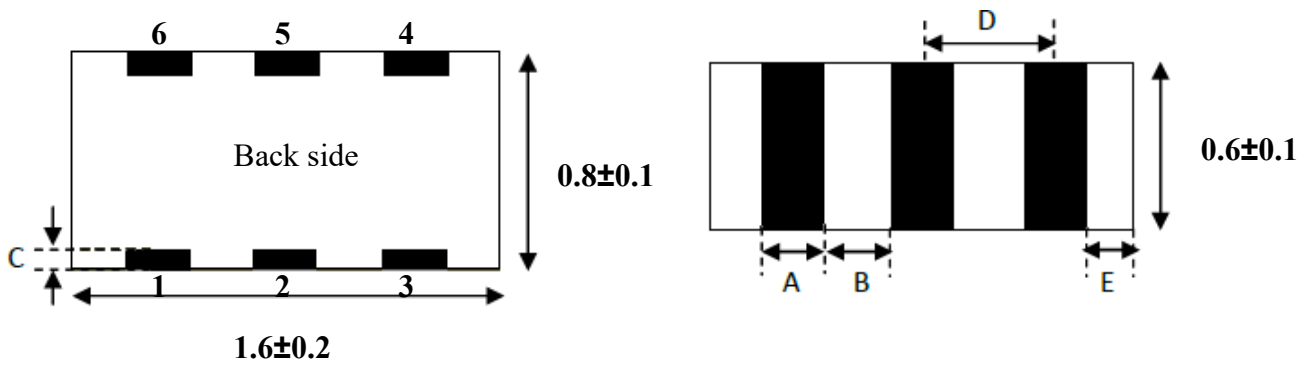


*The loss including PCB loss

Pin Assignment : (Diplexer)

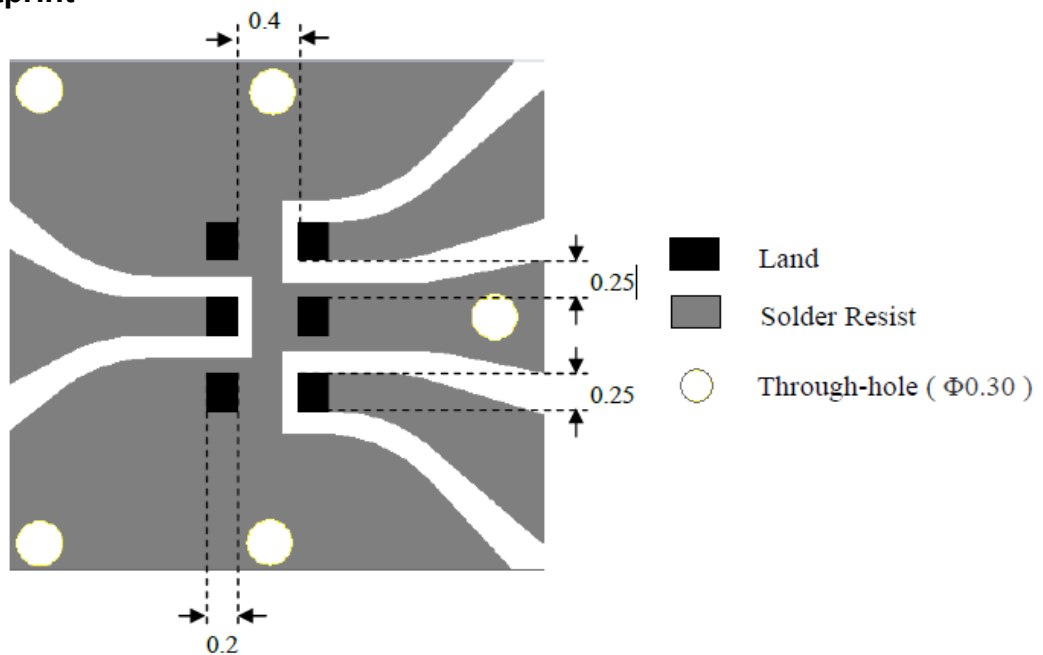


- Pin 1** High Port
- Pin 3** Low Port
- Pin 5** Com Port
- Pin 2,4,6** GND



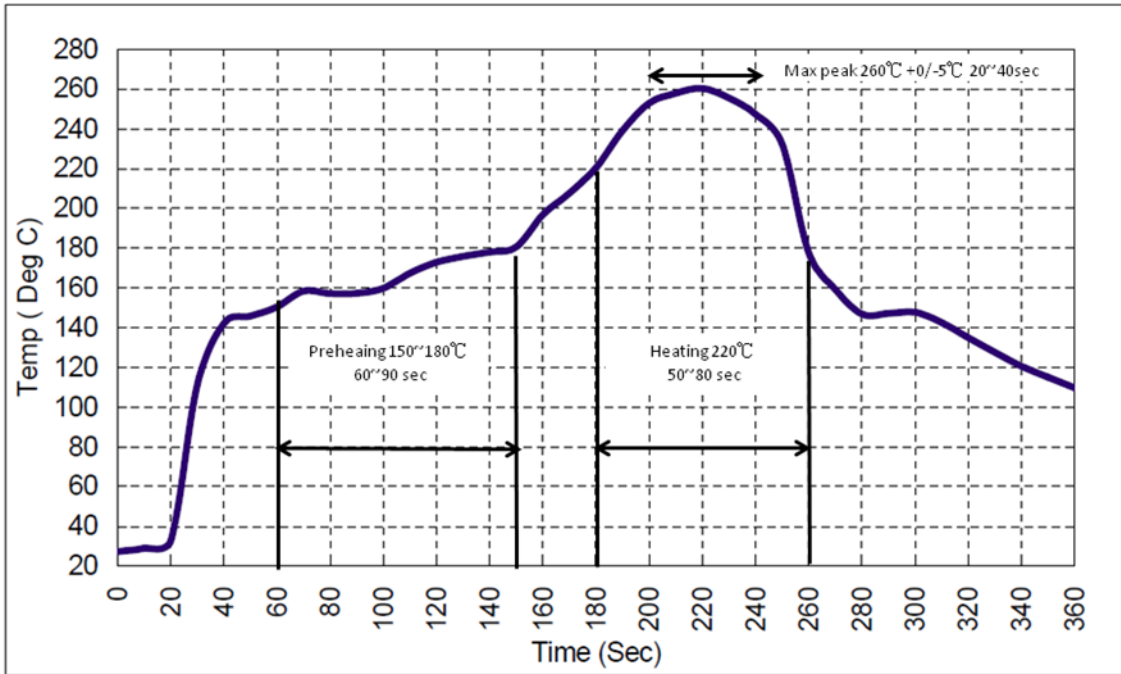
Symbols	A	B	C	D	E
Dimensions	0.25+/-0.1	0.25+/-0.1	0.2+/-0.1	0.5+/-0.1	0.175+/-0.1

PCB Footprint



RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 245~260°C peak (min. 10sec).
4. Time : 2 times.



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.