

CF1027

**2450 MHz
LTCC Filter**

**Package
Dimensions
2.0 x 1.25 mm**

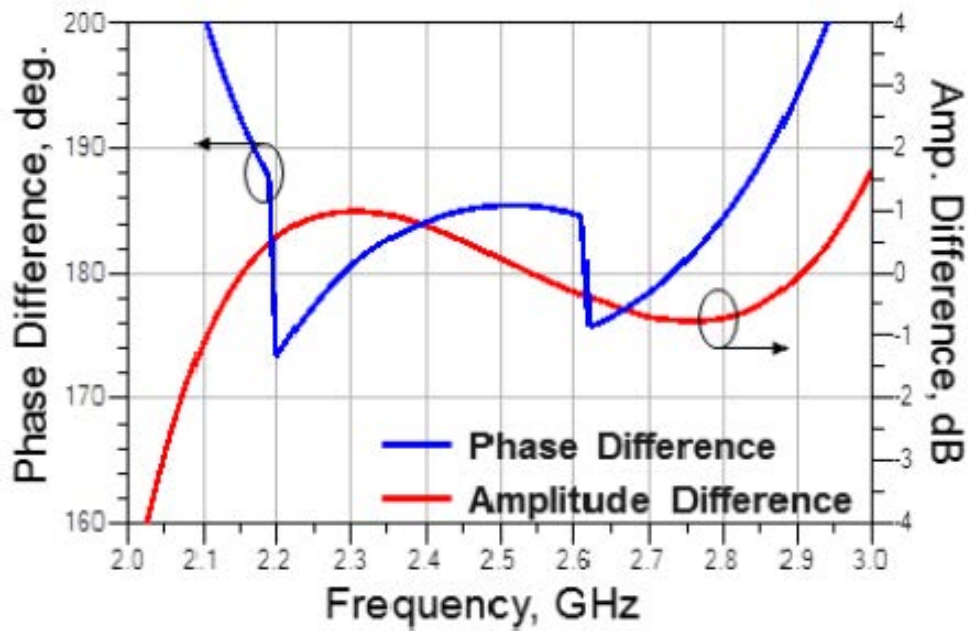
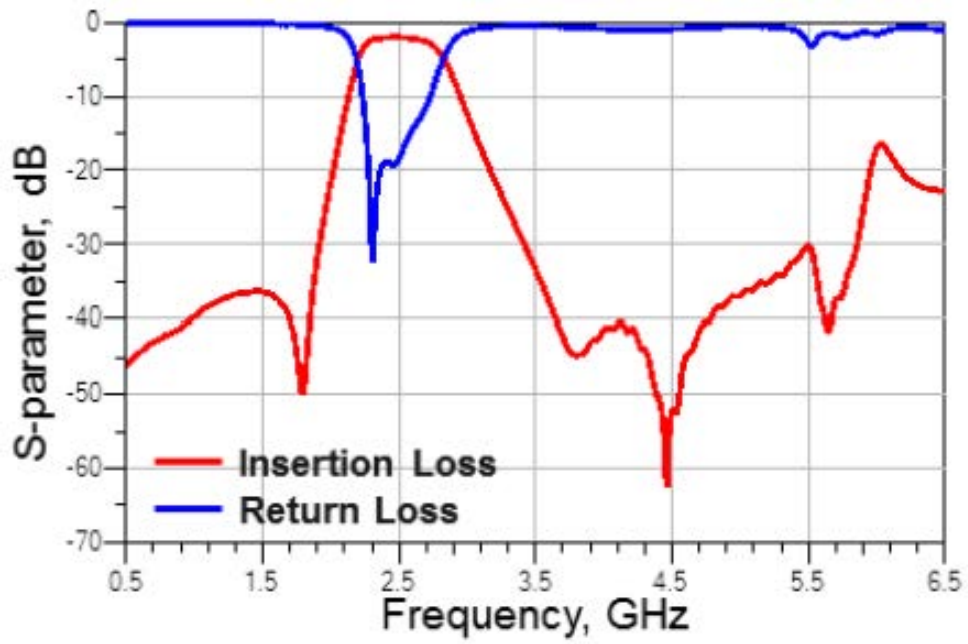
Maximum Rating:

- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°C
- Input Power Level: 27 dBm
- Moisture Sensitivity Level: Level (**MSL1**)
- Balanced Impedance: Conjugate match to BC series of Bluetooth chipset
- Impedance (Unbalanced) : 50 Ohms

Electrical Characteristics:

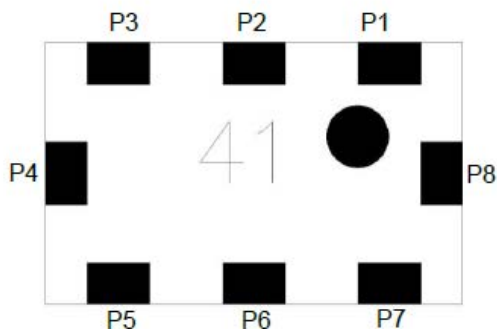
Item	Unit	Spec	Note
Frequency Range Fc	MHz	2400~2500	
Insertion Loss IL	dB	3.5 Max	at 25°C
Insertion Loss IL	dB	4.0 Max	at-40°C~85°C
Phase Difference (2400~2500 MHz)		180° +/-10°	
Amplitude Difference (2400~2500 MHz)	dB	2.0 max	
VSWR (2400~2500 MHz)		2.1 max	
Attenuation			
		Min	Typical
880 ~ 960 MHz	dB	35	40
1710 ~ 1880 MHz	dB	30	34
1880 ~ 1990 MHz	dB	20	22
4800 ~ 5000 MHz	dB	30	36

Frequency Characteristics:



Outline Drawing:

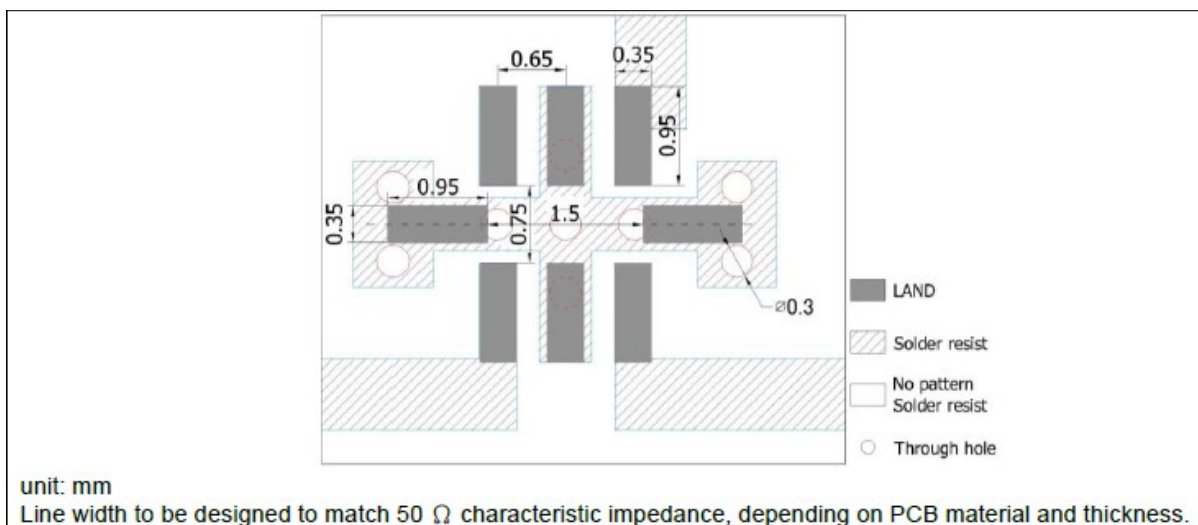
Top view



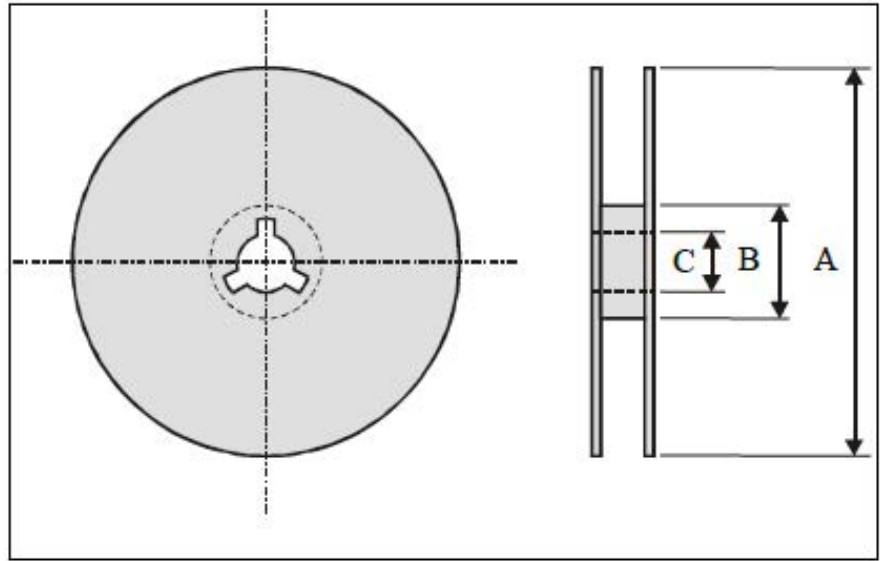
PIN	Definition	PIN	Definition
P1	Unbalance Port	P5	Balance Port
P2	DC/GND	P6	GND
P3	NC	P7	Balance Port
P4	GND	P8	GND

Figure	Symbol	Dimension (mm)
	L	2.00 ± 0.15
	W	1.25 ± 0.15
	T	0.95 ± 0.15
	A	0.20 ± 0.15
	B	0.30 ± 0.15
	C	0.35 ± 0.15
	D	0.65 ± 0.15
	E	0.20 ± 0.15
	F	0.20 ± 0.15
	G	0.475 ± 0.15
H	0.30 ± 0.15	

PCB Footprint:



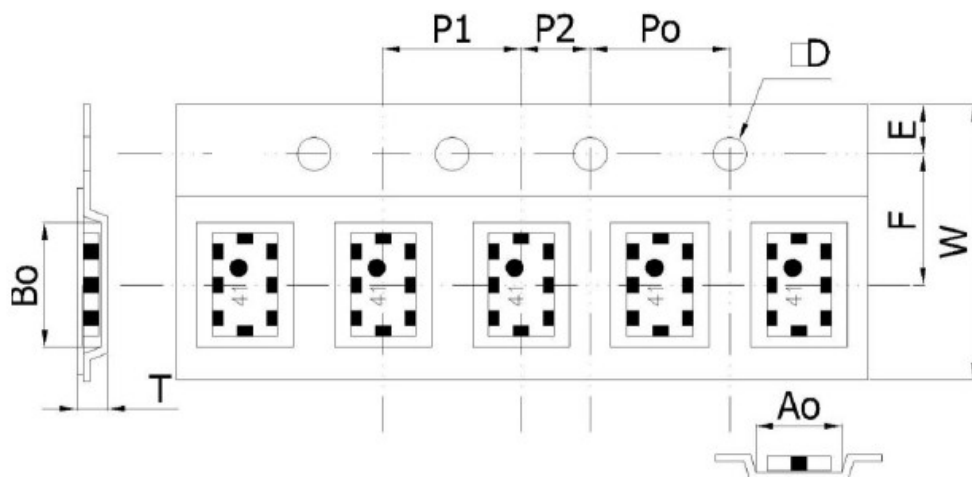
Packing



Index	A	B	C
Dimension (mm)	$\Phi 178$	$\Phi 60.0$	$\Phi 13.5$

Taping Quantity: 4000 pieces per 7" reel

2.Tape Dimension

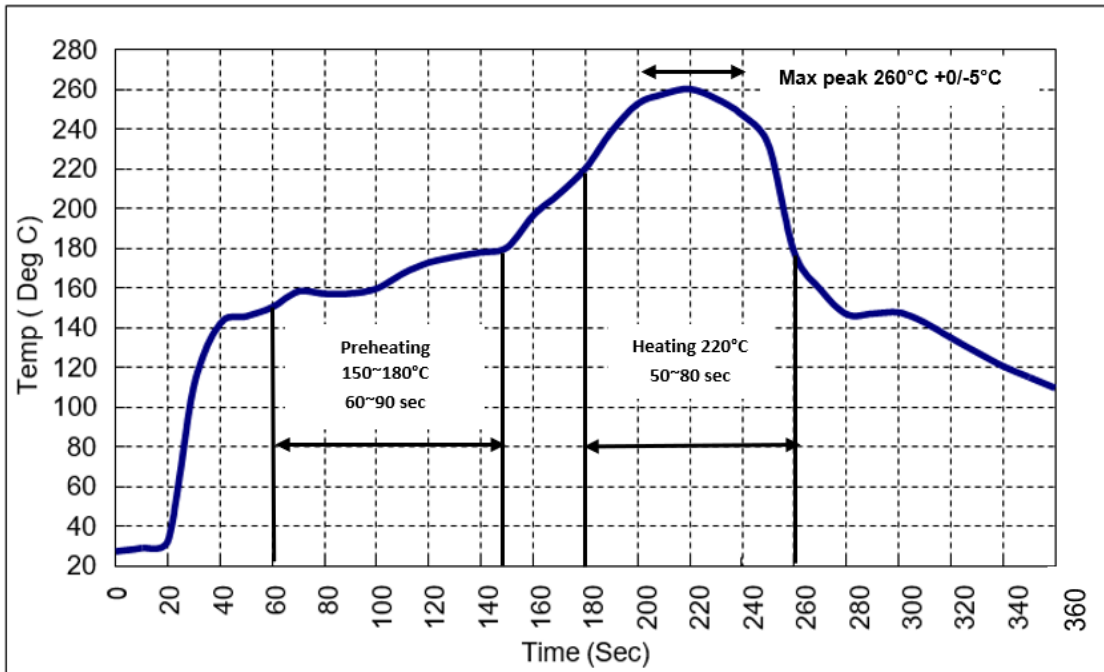


Plastic Tape specifications (unit :mm)

Index	Ao	Bo	ΦD	T	W
Dimension (mm)	1.30 ± 0.10	2.25 ± 0.10	1.55 ± 0.05	1.10 ± 0.10	8.00 ± 0.10
Index	E	F	Po	P1	P2
Dimension (mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05

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 260°C +0/-5°C peak (10 seconds).
4. Time: 2 times maximum.



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.