

Preliminary



CF1022

MAXIMUM RATING:

- 1. Operating temperature range: -40°C to +85°C
- 2. Storage temperature range: -40 °C to +85 °C
- 3. Moisture Sensitive Level: Level 1 (MSL1)

869.5 MHz LTCC Filter

Package Dimensions 1.0 x 0.5 mm

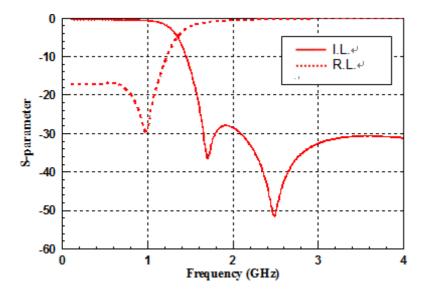
ELECTRICAL CHARACTERISTICS:

Source impedance (unbalanced) :	Zs = 50 Ω
Load Impedance (balanced)	$ZL = 50 \Omega$

	ltem	Unit	Spec
Frequency Range		MHz	824~915(869.5)
Insertion loss	+2 5℃	dB	0.65 Max
	-40°C ∼ +85°C	dB	0.85 Max
Attenuation (Reference le	evel from 0 Db)		
1648 ~ 1830 MHz		dB	25 Min
2472 ~ 2745 MHz		dB	25 Min
3296 ~ 3660 MHz		dB	25 Min
VSWR			2.0 Max

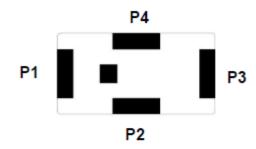
FREQUENCY CHARACTERISTICS:

Frequency Response



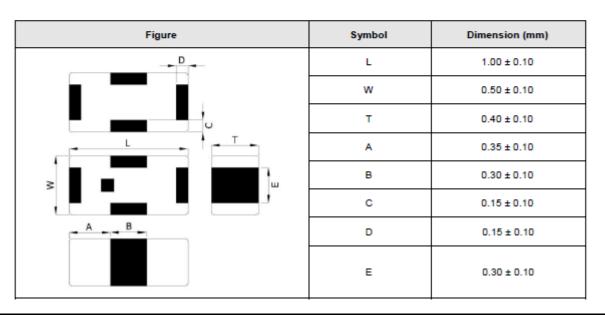
Outline Drawing:

CONSTRUCTION

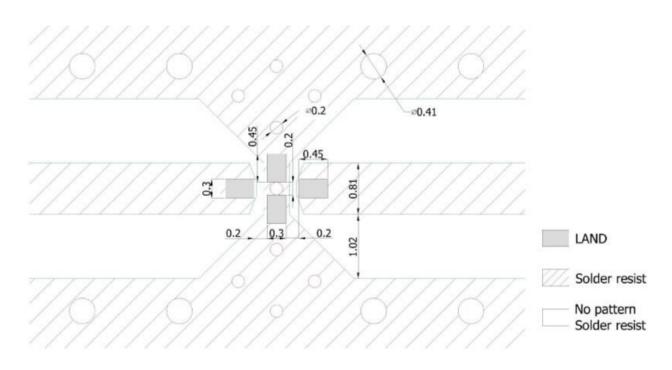


PIN	Connection
1	Input port
2	GND
3	Output port
4	GND

DIMENSIONS



PCB Footprint:

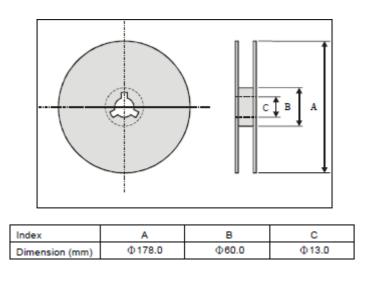


Unit : mm

Line width to be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.

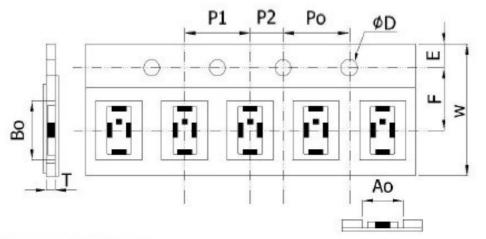
PACKING:

1. REEL DIMENSION (4000 PCS)



2. TAPE

DIMENSION (unit :mm)

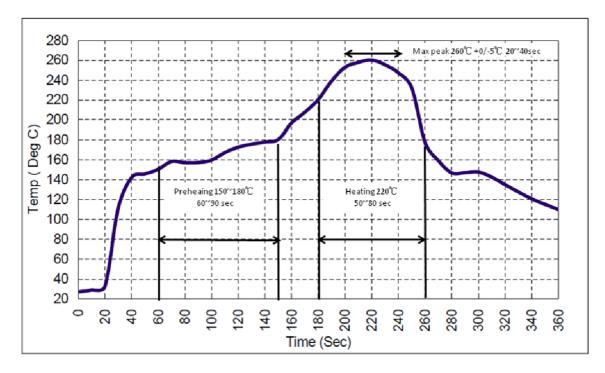


Paper Tape specifications (unit :mm)

Index	Ao	Bo	ΦD	т	w
Dimension (mm)	0.67 ± 0.10	1.14 ± 0.10	1.50 + 0.10	0.42 ± 0.10	8.0 ± 0.30
Index	E	F	Po	P1	P2
Dimension (mm)	1.75 ± 0.10	3.50 ± 0.20	4.00 ± 0.10	2.00 ± 0.10	2.00 ± 0.10

RECOMMENDED REFLOW PROFILE:

- 1. Preheating shall be fixed at $150 \sim 180^{\circ}$ C for $60 \sim 90$ seconds.
- 2. Ascending time to preheating temperature 150° 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.

- 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.