



Product Specification

Chip Multilayer Band Pass Filter WiFi2G

for 2305-2500 MHz

size : 1.0x0.5mm

P/N : LFL152G45TC7C309



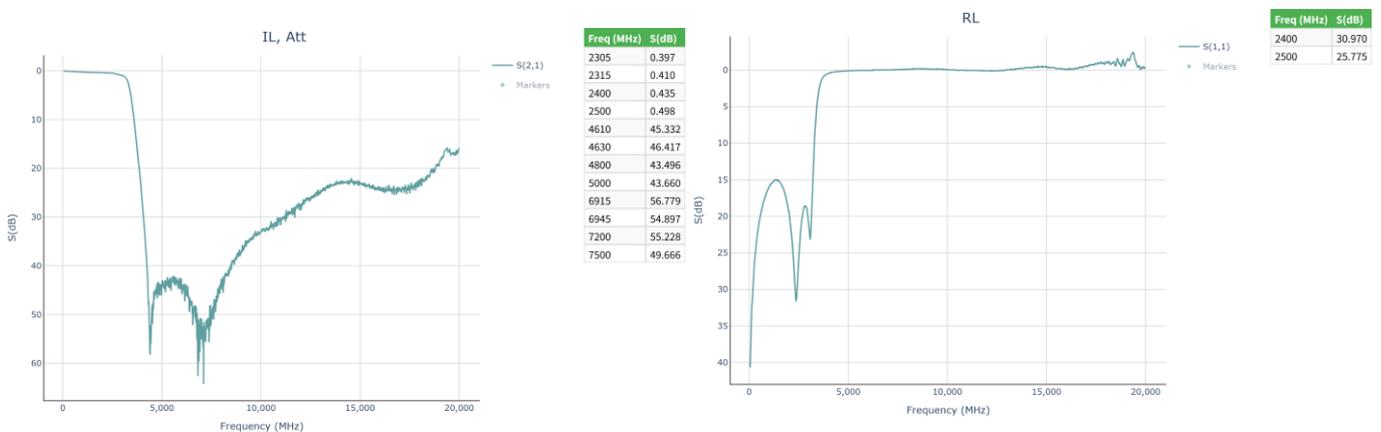
Part Number : LFL152G45TC7C309

1. General information

Operating Temperature	-40 ~ +85 °C
Power Capacity	3W 50Ω Load
RoHS compliance	YES (RoHs-Y)
MSL	1

2. Electrical Characteristics (at -40 ~ +85 °C)

Item		Frequency (MHz)	SPEC			Unit
			Min.	Typ.(+25°C)	Max.	
Insertion Loss	at +25°C	2400.00 ~ 2500.00	-	0.50	0.60	dB
	at -40 ~ +85°C	2400.00 ~ 2500.00	-	-	0.70	dB
	at +25°C	2305.00 ~ 2315.00	-	0.41	0.60	dB
	at -40 ~ +85°C	2305.00 ~ 2315.00	-	-	0.70	dB
VSWR		2400.00 ~ 2500.00	-	1.13	1.60	dB
Attenuation (Absolute value)		4610.00 ~ 4630.00	34.5	45.3	-	dB
		4800.00 ~ 5000.00	34.5	43.4	-	dB
		6915.00 ~ 6945.00	35.5	50.7	-	dB
		7200.00 ~ 7500.00	35.5	48.0	-	dB
Impedance Input (Nominal)			-	50	-	Ω
Impedance Output (Nominal)			-	50	-	Ω

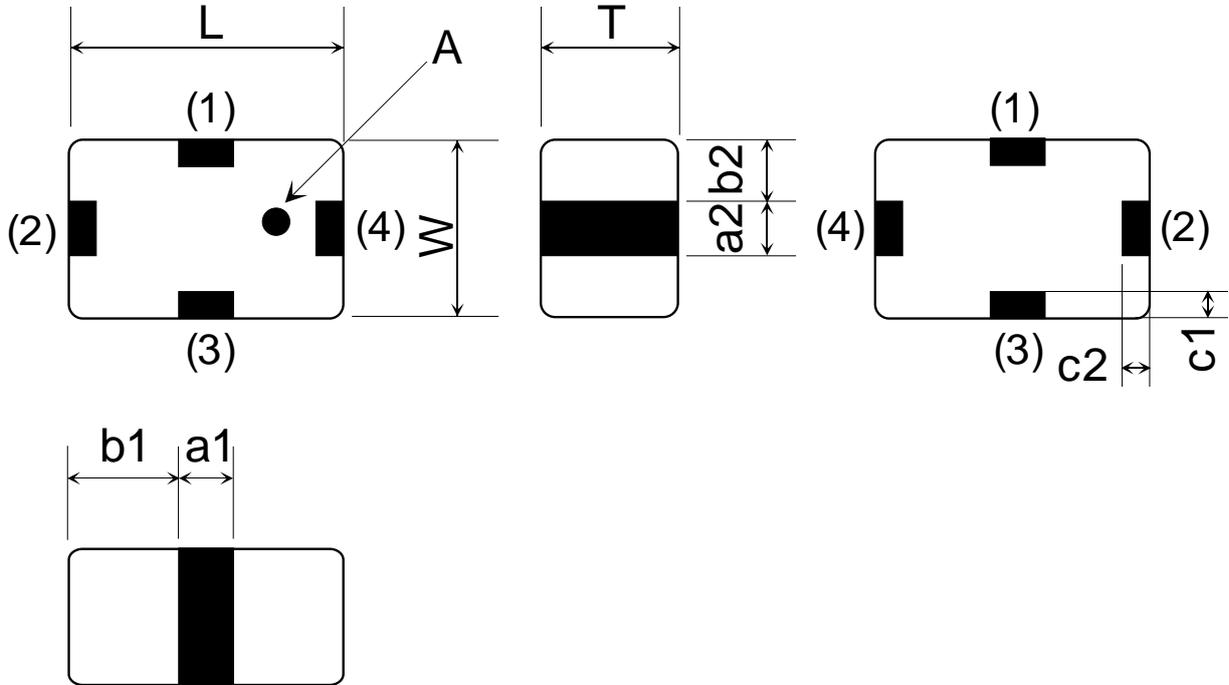




3. Construction, Dimensions & Marking

<Top View>

<Bottom View>



(in mm)

Mark	Meaning
A	Directional Input Mark

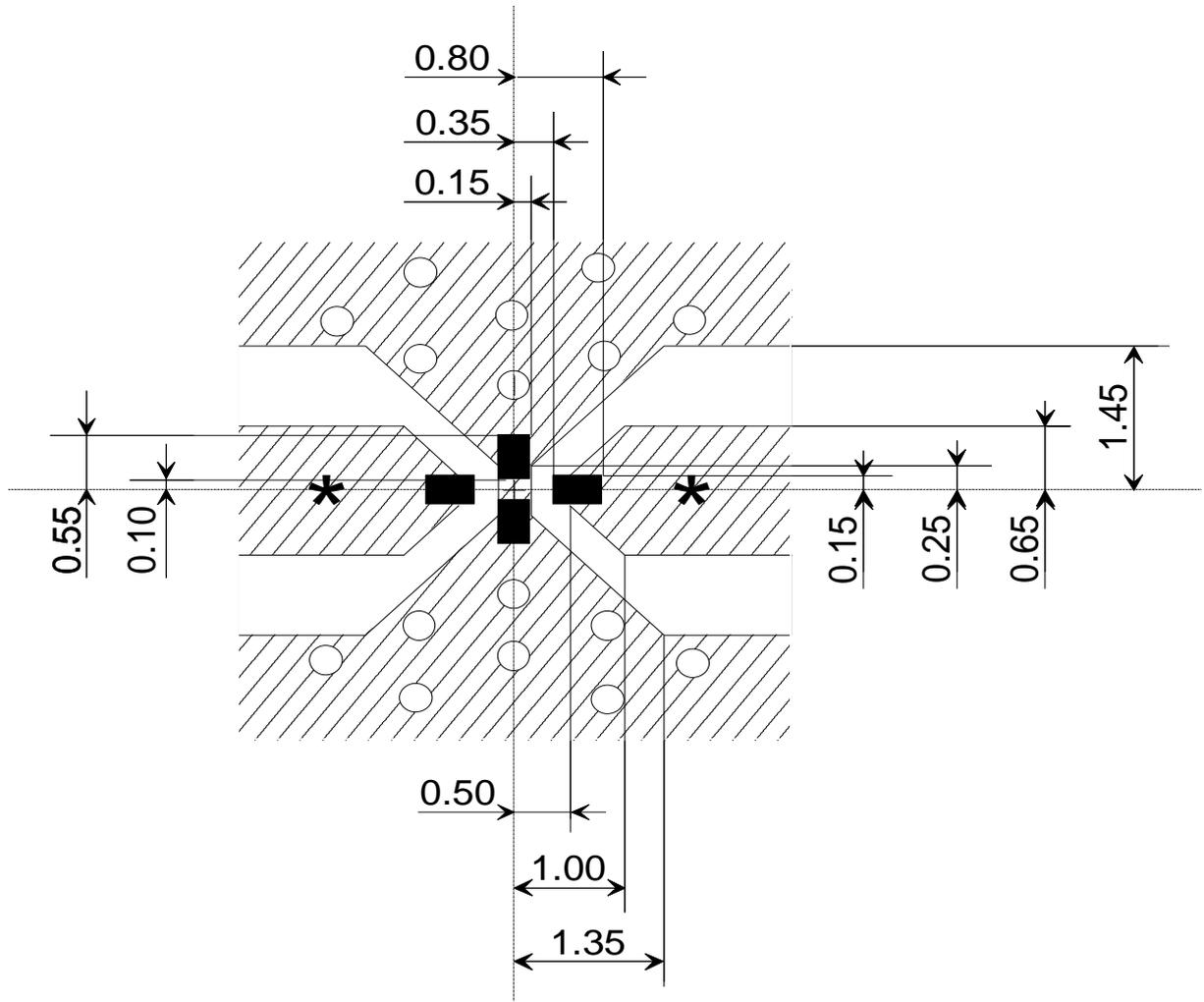
Mark	Dimension	Mark	Dimension
L	1.00 ± 0.05	a2	0.3 ± 0.1
W	0.50 ± 0.05	b	0.35 ± 0.10
T	0.40 max.	c1	0.10 ± 0.05
a1	0.3 ± 0.1	c2	0.10 ± 0.05

TERMINAL CONFIGURATION

Terminal No.	Terminal Name	Terminal No.	Terminal Name
(1)	GND	(3)	GND
(2)	OUT	(4)	IN



4. Land Pattern



(in mm)

-  Land
-  Solder resist
-  No pattern Solder resist
-  Through Hole ϕ 0.30

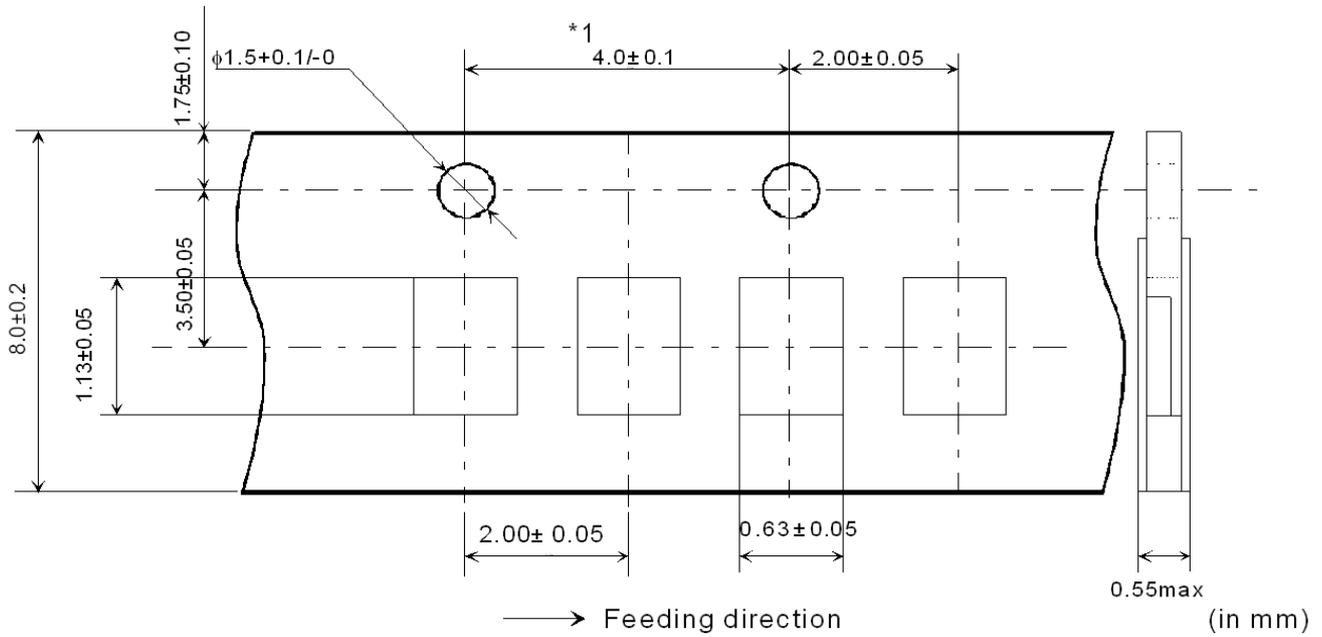
* Line width to be designed to match 50 ohm characteristic impedance,
Depending on PCB material and thickness.



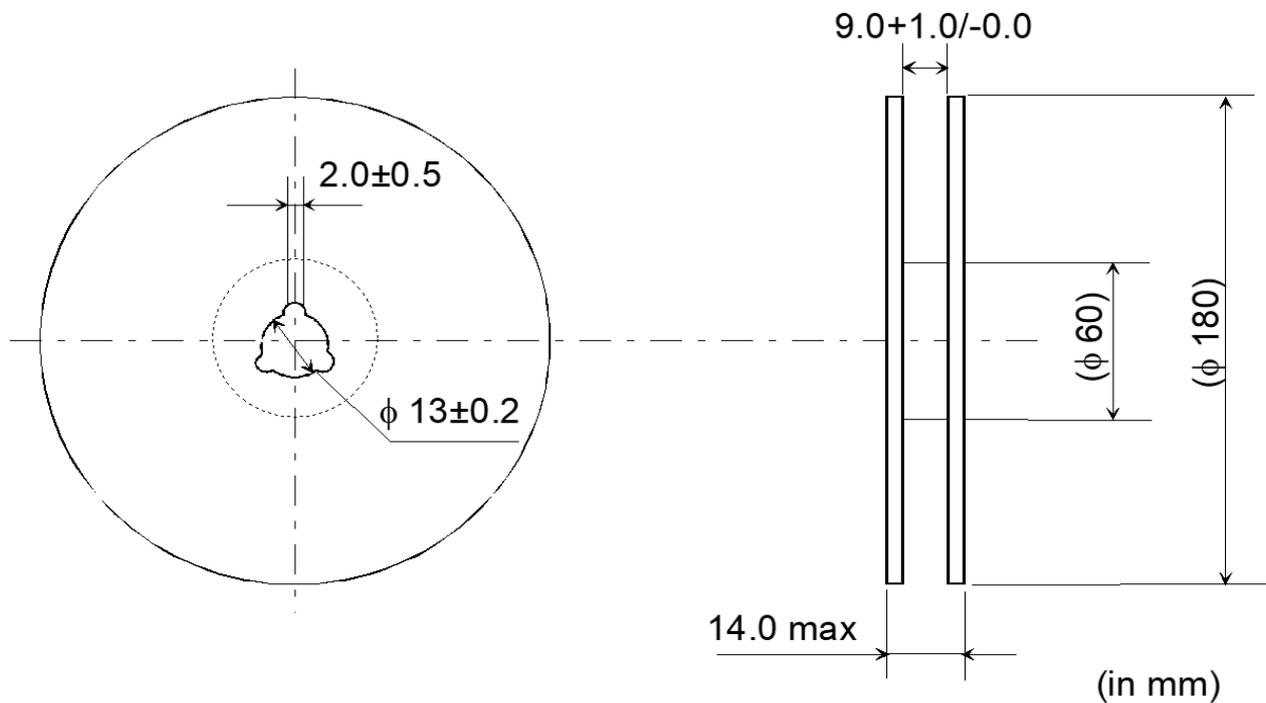
5. Tape and Reel Packing

(1) Dimensions of Tape (Paper tape)

*1 Cumulative tolerance of max. ± 0.3 every 10 pitches



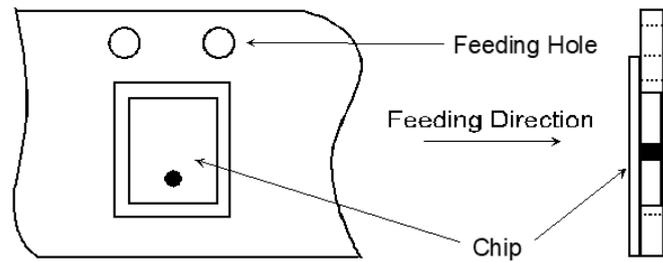
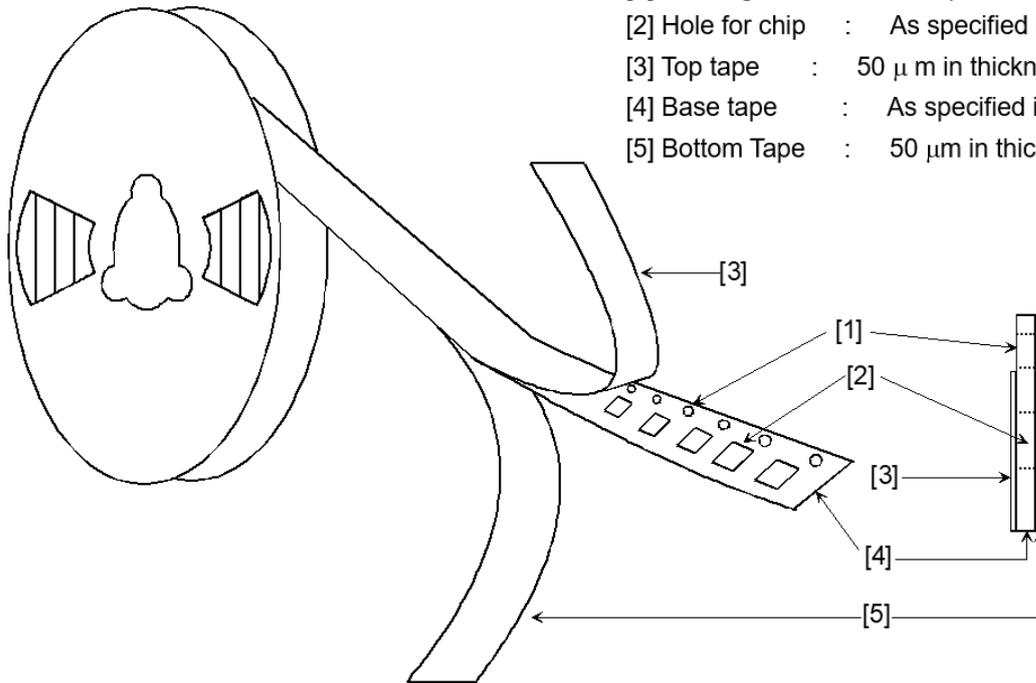
(2) Dimensions of Reel





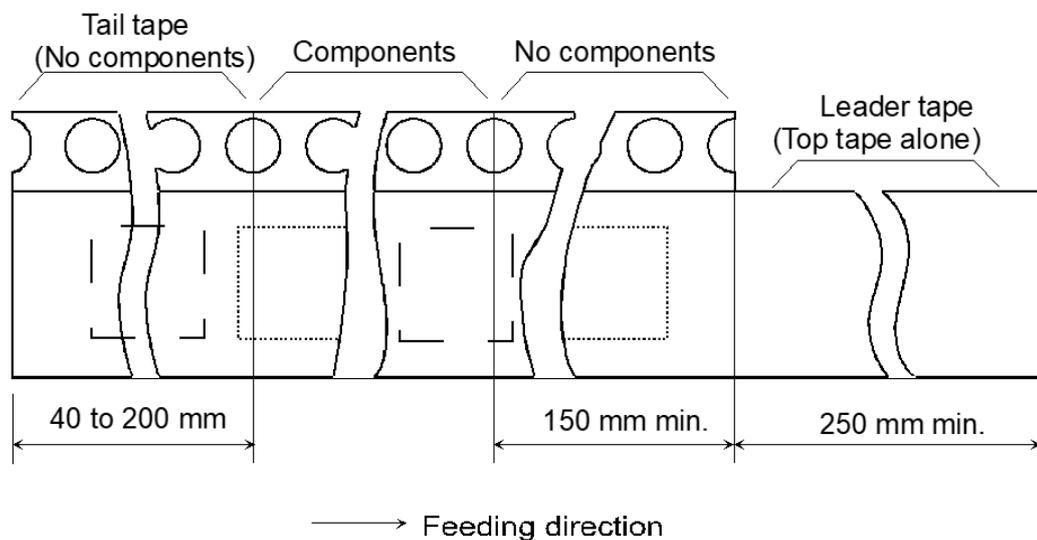
(3) Taping Diagrams

- [1] Feeding Hole : As specified in (1)
- [2] Hole for chip : As specified in (1)
- [3] Top tape : 50 μ m in thickness
- [4] Base tape : As specified in (1)
- [5] Bottom Tape : 50 μ m in thickness



Package chips

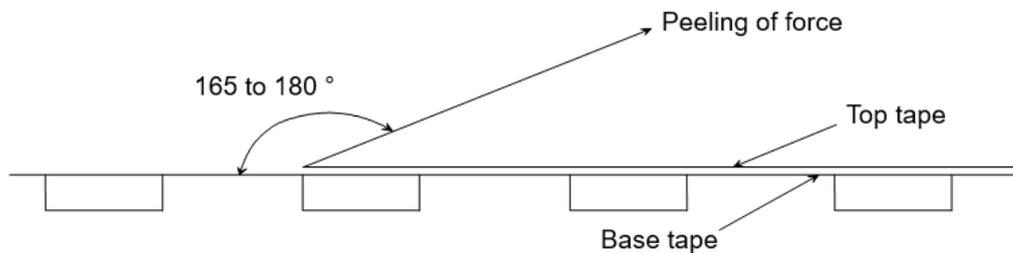
(4) Leader and Tail tape





- (5) The tape for chips are wound clockwise, the feeding holes to the right side as the tape is pulled toward the user.
- (6) The top tape and bottom tape shall not protrude the edges of the tape, and shall not cover sprocket holes.
- (7) The top tape and base tape are not adhered at no components area for 250 mm min.
- (8) Tear off strength against pulling of top tape and bottom tape : 5N min.
- (9) Packaging unit : 10000 pcs. / reel
- (10) Material : Base tapePaper
ReelPlastic
- (11) Peeling of force : in the direction of peeling as shown below.
Peeling speed : 300mm/min \pm 10mm/min

Tape width	Peeling of force (max)
8mm	1.0N





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- Medical equipment.
- Traffic signal equipment.
- Burning / explosion control equipment
- Application of similar complexity and/ or reliability requirements to the applications listed in the above.
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- improper use of engineering samples.

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Change History

Revision No.	Date	Comment
-	2025/9/30	Initial