



## **Product Specification**

### **Chip Multilayer Band Pass Filter WiFi5G**

for 4900-5950 MHz

size : 1.6x0.8mm

**P/N : LFB185G54CGLD708**



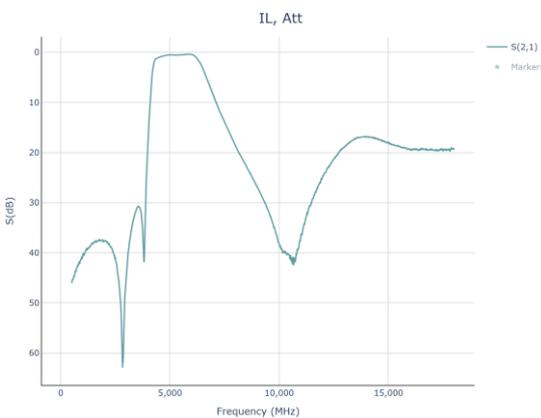
Part Number : LFB185G54CGLD708

## 1. General information

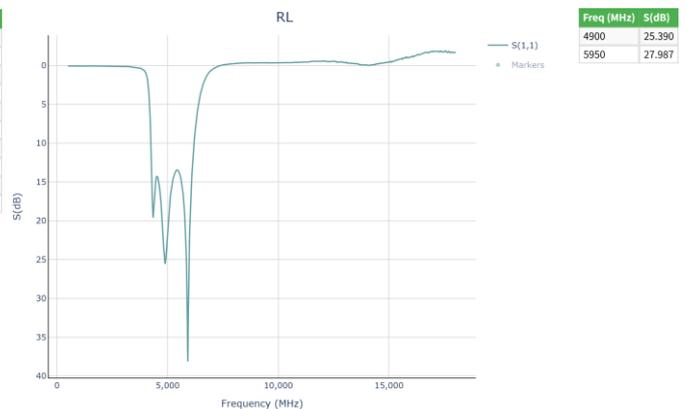
Operating Temperature	-40 ~ +85 °C
Power Capacity	1W      50Ω Load
RoHS compliance	YES (RoHS-Y)
MSL	1

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

Item		Frequency (MHz)	SPEC			Unit
			Min.	Typ.(+25°C)	Max.	
Insertion Loss	at +25°C	4900.00 ~ 5950.00	-	0.55	0.85	dB
	at -40 ~ +85°C	4900.00 ~ 5950.00	-	-	1.00	dB
VSWR		4900.00 ~ 5950.00	-	1.68	2.10	dB
Attenuation (Absolute value)		30.00 ~ 2700.00	32.0	37.4	-	dB
		3400.00 ~ 3800.00	15.0	30.7	-	dB
		9800.00 ~ 11900.00	15.0	25.8	-	dB
		14700.00 ~ 17850.00	5.0	17.6	-	dB
Impedance Input (Nominal)			-	50	-	Ω
Impedance Output (Nominal)			-	50	-	Ω



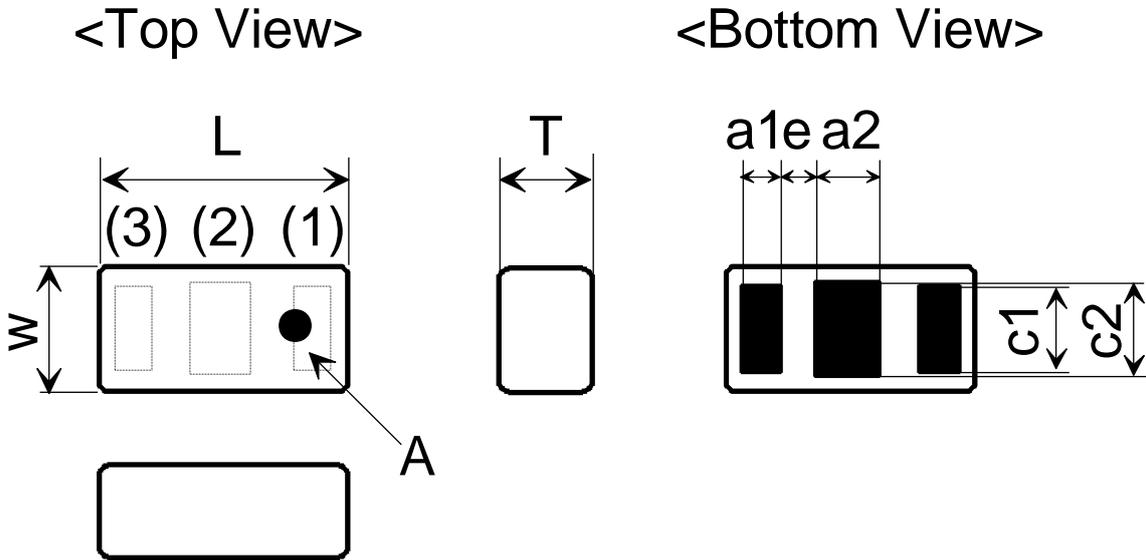
Freq (MHz)	S(dB)
30	
2700	48.077
3400	32.225
3800	40.998
4900	0.532
5950	0.386
9800	35.549
11900	25.773
14700	17.553
17850	19.220



Freq (MHz)	S(dB)
4900	25.390
5950	27.987



### 3. Construction, Dimensions & Marking



Mark	Meaning
A	Directional Input Mark

(in mm)

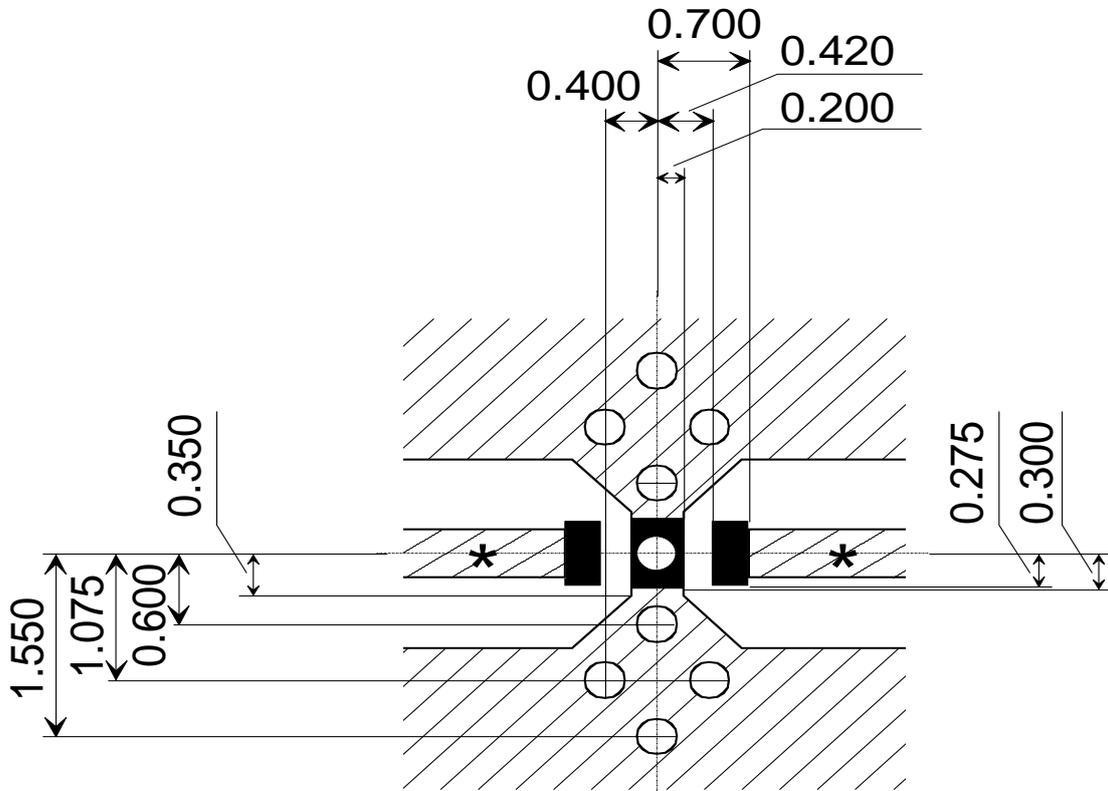
Mark	Dimension	Mark	Dimension
L	$1.6 \pm 0.1$	a2	$0.40 \pm 0.10$
W	$0.8 \pm 0.1$	c1	$0.55 \pm 0.10$
T	0.65 max.	c2	$0.60 \pm 0.10$
a1	$0.25 \pm 0.10$	e	$0.23 \pm 0.05$

#### TERMINAL CONFIGURATION

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



#### 4. Land Pattern



(in mm)

-  Land
-  Solder resist
-  No pattern  
Solder resist
-  Through Hole  $\Phi 0.30$

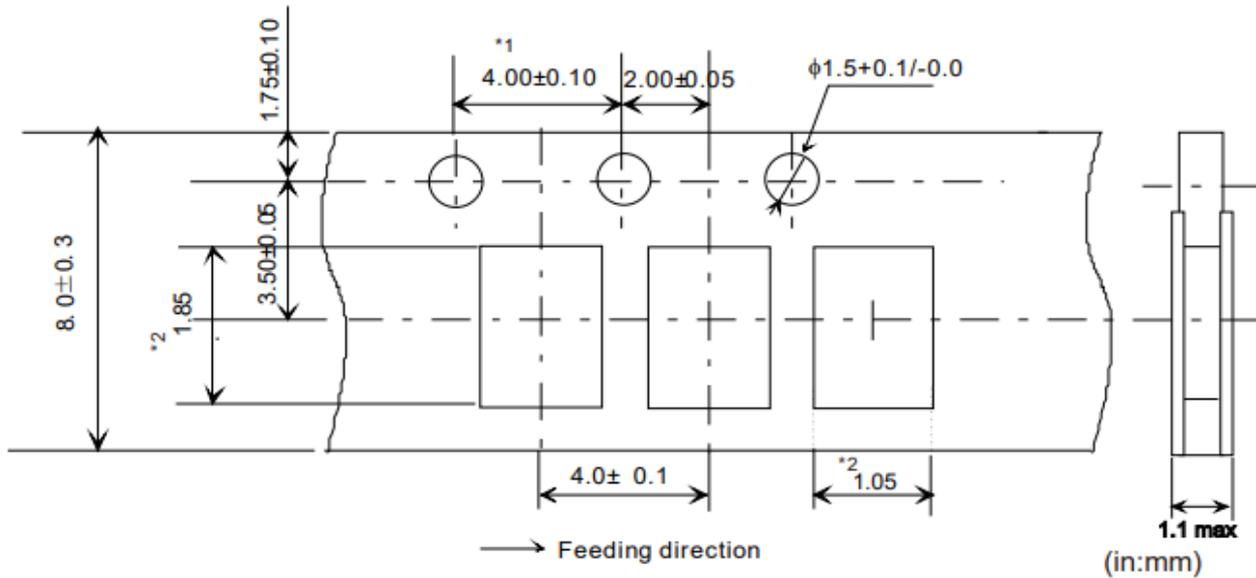
\* Line width to be designed to match 50 ohm characteristic impedance,  
Depending on PCB material and thickness.



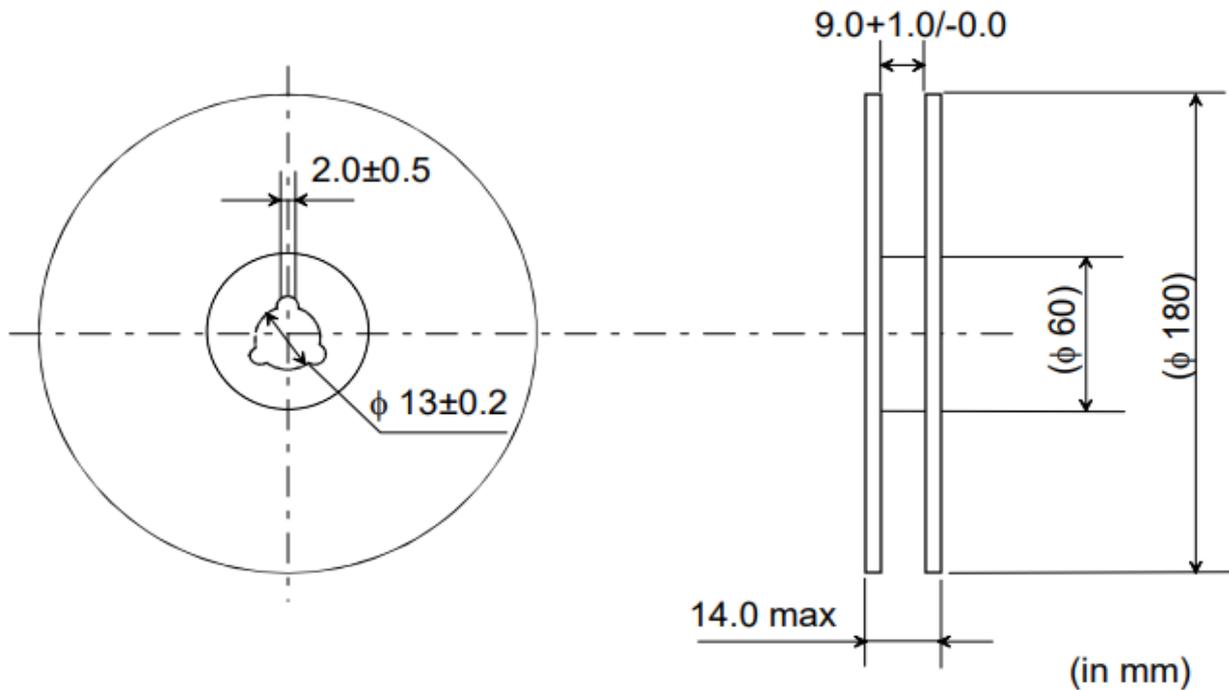
## 5. Tape and Reel Packing

### (1) Dimensions of Tape (Paper tape)

- \*1 Cumulative tolerance of max.  $\pm 0.3$  every 10 pitches
- \*2 Reference value

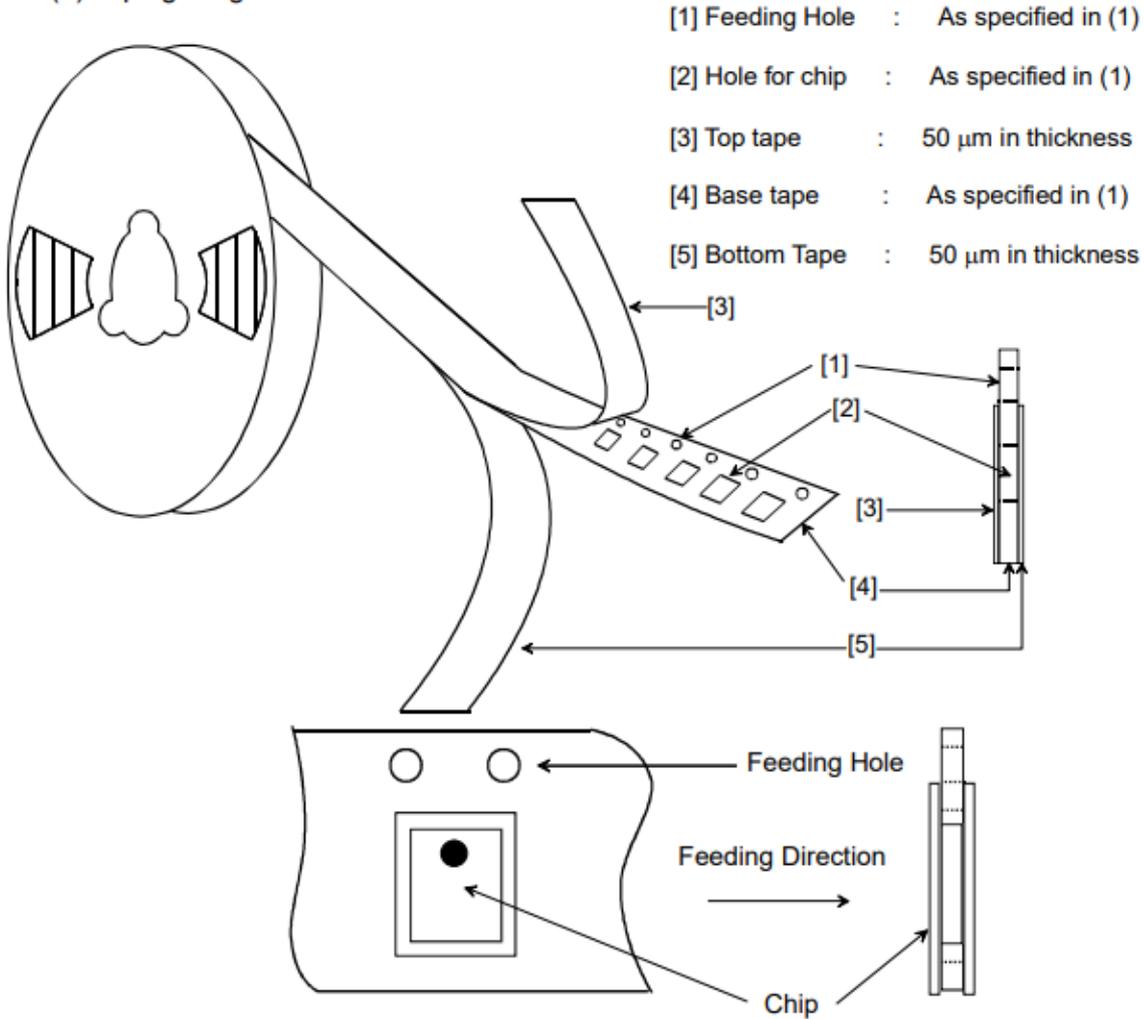


### (2) Dimensions of Reel

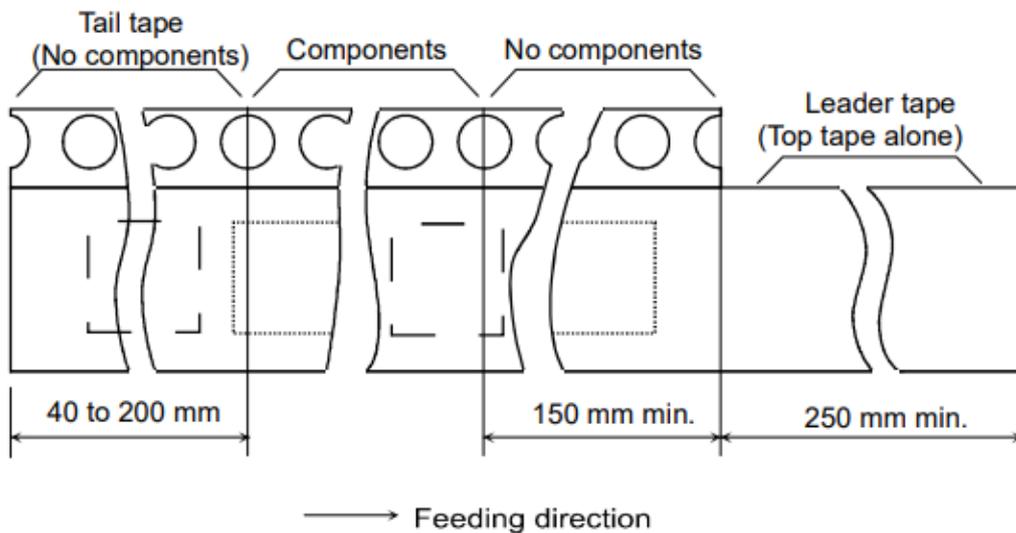




(3) Taping Diagrams



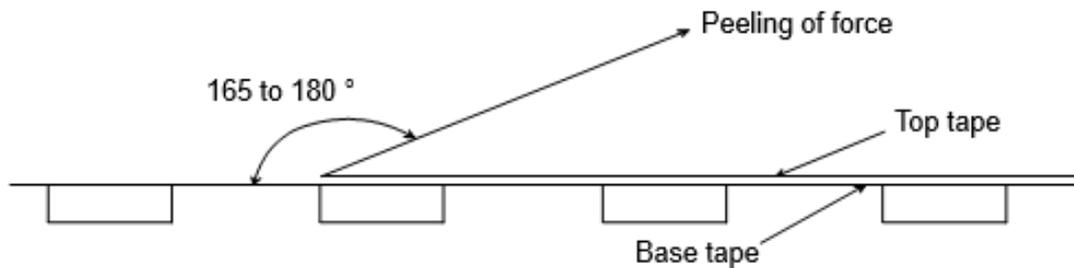
(4) Leader and Tail tape





- (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 : 4000 pcs. / reel
- (10) Material : Base tape .....Paper  
Reel .....Plastic
- (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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- Burning / explosion control equipment
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**Change History**

Revision No.	Date	Comment
-	2028/7/5	Initial
A	2025/9/30	Update Format