



## **Product Specification**

### **Chip Multilayer Band Pass Filter n79**

for 4400-5000 MHz

size : 2.0x1.25mm

**P/N : LFB214G70CT5F479**



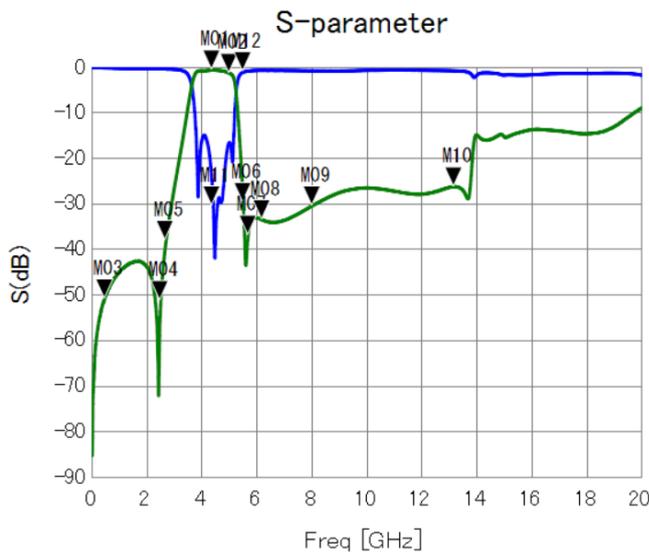
Part Number : LFB214G70CT5F479

## 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 )

Nominal Characteristics Impedance		50 Ω (Nominal)
Nominal Center Frequency		4700.00 MHz
Pass Band Range (BW)		fo ± 300.00 MHz
Insertion Loss (dB)	4400.00 - 5000.00	1.80 max at +25 °C 2.10 max at -40 ~ +85 °C
	4400.00 – 4600.00	1.60 max at +25 °C 1.80 max at -40 ~ +85 °C
	4600.00 – 4800.00	1.60 max at +25 °C 1.80 max at -40 ~ +85 °C
	4800.00 – 5000.00	1.80 max at +25 °C 2.10 max at -40 ~ +85 °C
Attenuation (Absolute value, dB)	450.00 ~ 2200.00 MHz	37.0 min
	2300.00 ~ 2483.00 MHz	37.0 min
	2496.00 ~ 2690.00 MHz	33.0 min
	5490.00 ~ 5670.00 MHz	16.0 min
	5670.00 ~ 5950.00 MHz	25.0 min
	6200.00 ~ 8000.00 MHz	25.0 min
	8800.00 ~ 10000.00 MHz	22.0 min
	13200.00 ~ 15000.00 MHz	10.0 min
	17600.00 ~ 20000.00 MHz	4.0 min
V.S.W.R. in BW		2.0 max



M01 : S(2,1)  
Freq 4.400G Hz  
S(dB) -0.618

M02 : S(2,1)  
Freq 5.000G Hz  
S(dB) -1.331

M03 : S(2,1)  
Freq 450.000M Hz  
S(dB) -50.809

M04 : S(2,1)  
Freq 2.496G Hz  
S(dB) -51.269

M05 : S(2,1)  
Freq 2.690G Hz  
S(dB) -37.902

M06 : S(2,1)  
Freq 5.490G Hz  
S(dB) -29.645

M07 : S(2,1)  
Freq 5.670G Hz  
S(dB) -36.902

M08 : S(2,1)  
Freq 6.200G Hz  
S(dB) -33.520

M09 : S(2,1)  
Freq 8.000G Hz  
S(dB) -30.399

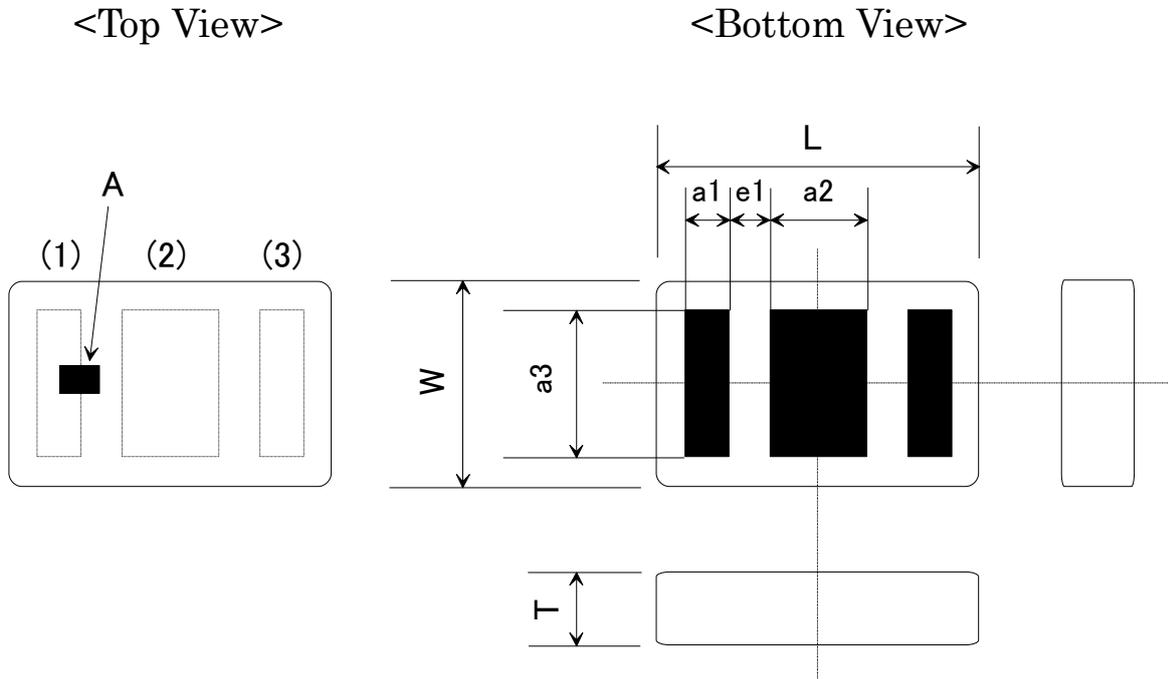
M10 : S(2,1)  
Freq 13.200G Hz  
S(dB) -26.201

M11 : S(1,1)  
Freq 4.400G Hz  
S(dB) -30.621

M12 : S(1,1)  
Freq 5.500G Hz  
S(dB) -1.048



### 3. Construction, Dimensions & Marking



Mark	Meaning
A	Directional Input Mark

(in mm)

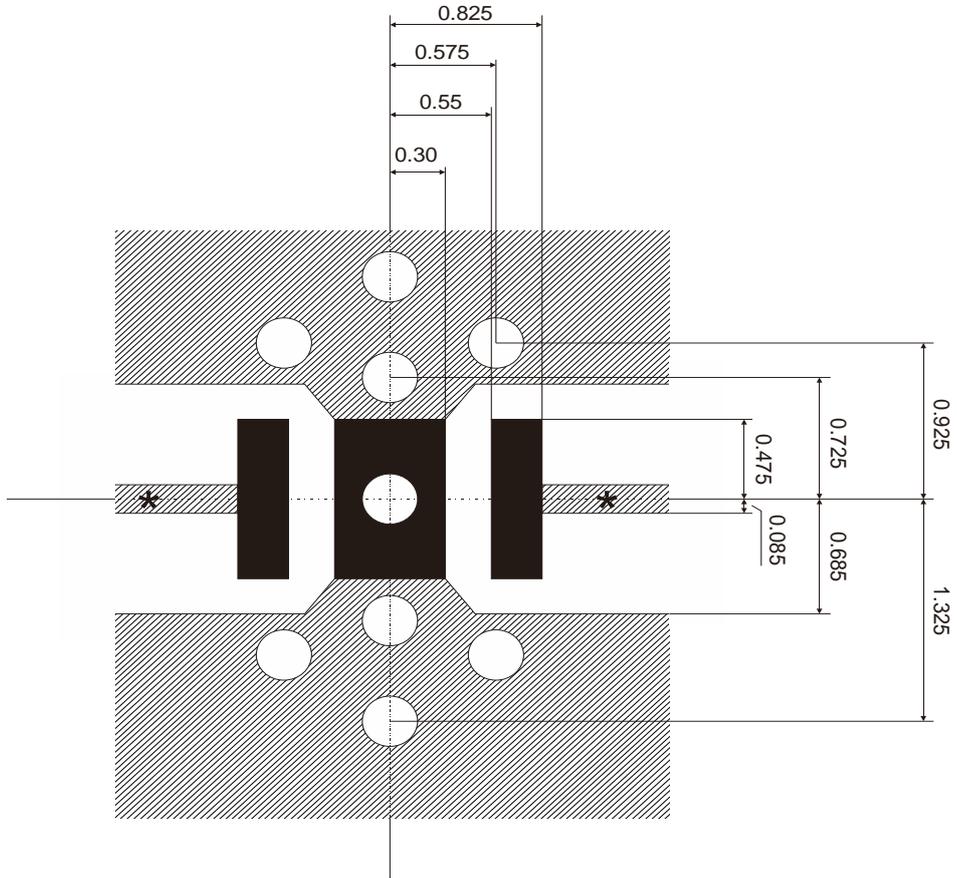
Mark	Dimension	Mark	Dimension
L	$2.00 \pm 0.15$	a2	$0.60 \pm 0.10$
W	$1.25 \pm 0.10$	a3	$0.95 \pm 0.10$
T	0.65 max.	e1	$0.25 \pm 0.05$
a1	$0.275 \pm 0.100$	-	-

#### TERMINAL CONFIGURATION

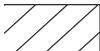
Terminal No.	Terminal Name	Terminal No.	Terminal Name
(1)	IN	(3)	OUT
(2)	GND	-	-



### 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.

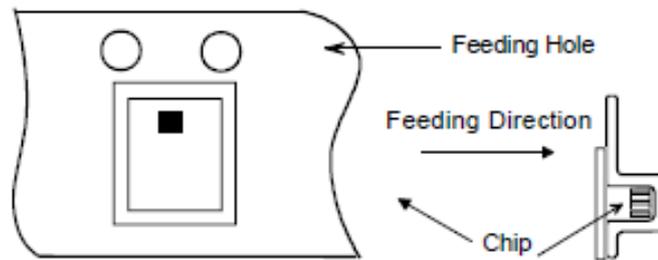
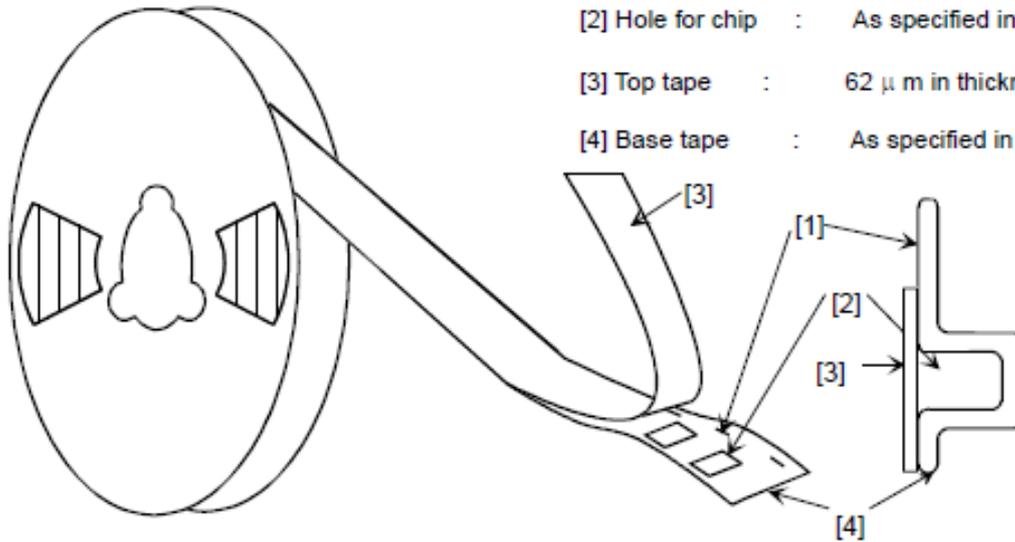
Strongly recommended to keep the through hole position in order to reproduce the performance of specification.



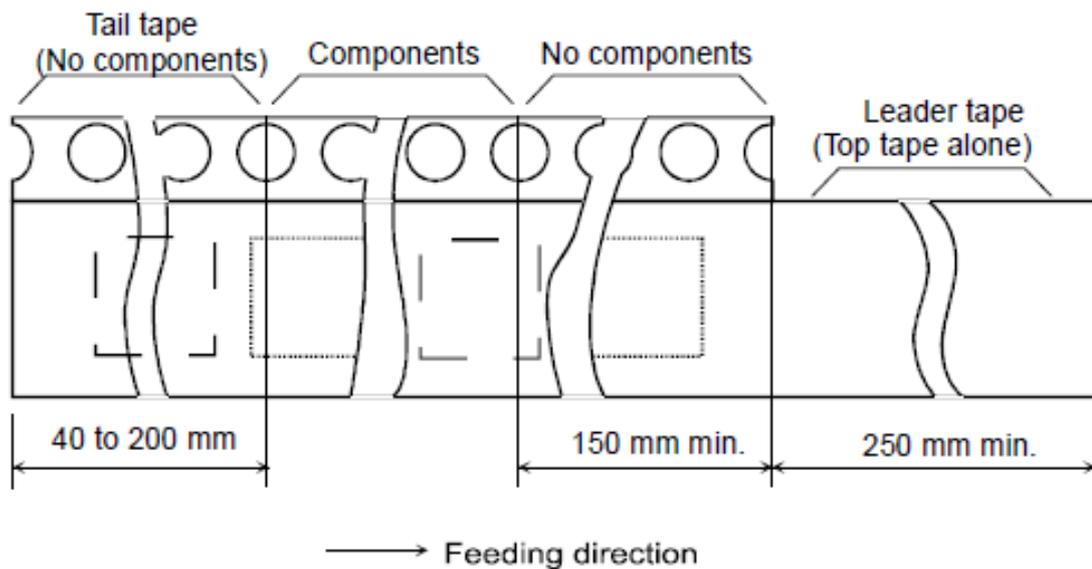


(3) Taping Diagrams

- [1] Feeding Hole : As specified in (1)
- [2] Hole for chip : As specified in (1)
- [3] Top tape : 62 μ m in thickness
- [4] Base tape : As specified in (1)



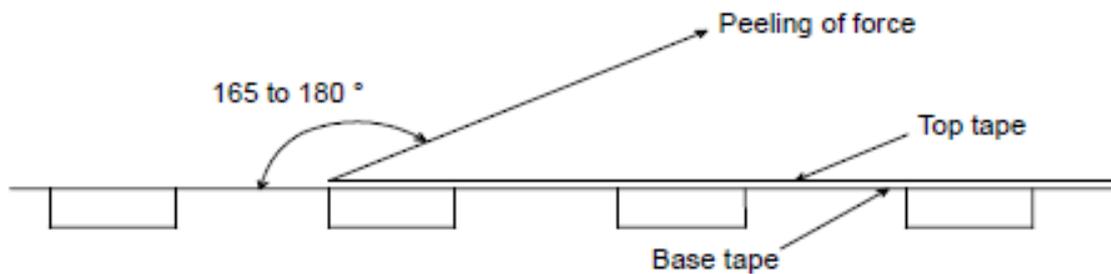
(4) Leader and Tail tape





- (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 base tape are not adhered at no components area for 250 mm min.
- (7) Tear off strength against pulling of top tape : 5 N min.
- (8) Packaging unit : 4000 pcs./ reel
- (9) Material : Base tape .....Plastic  
Reel .....Plastic
- (10) 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
12-56mm	1.3N
72-200mm	1.5N





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**Change History**

Revision No.	Date	Comment
-	2020/12/14	Initial
A	2025/11/17	Updated format