

Product Information

Control No. : ARP-590401- E 1

Issued on April 13, 2020

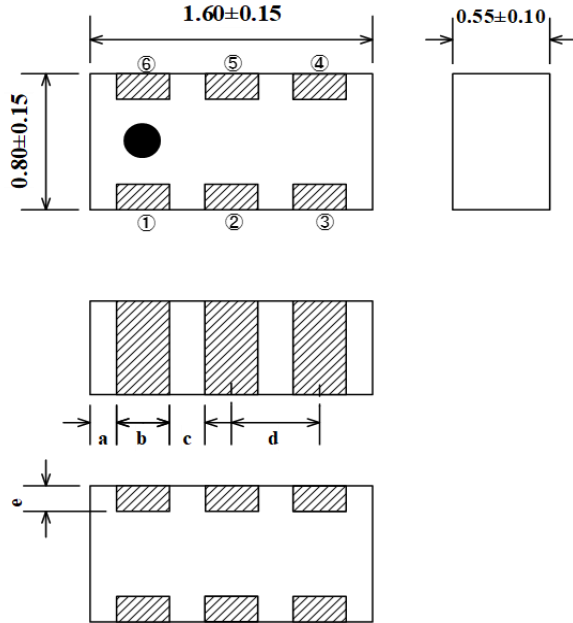
Application : 2.5GHz LPF

1. Type No.

HMD904D-01 - T

RoHS Compliant Part

2. Dimension (Unit : mm)



Terminal	
①	GND
②	Input
③	GND
④	GND
⑤	Output
⑥	GND

Terminal Dimensions	
a	0.15 +/- 0.15
b	0.30 +/- 0.10
c	0.20 +/- 0.10
d	0.50 +/- 0.10
e	0.15 +/- 0.10

3. Electrical characteristics

Parameter	Specification	Typical	Unit	Remark
fc (Center frequency)	2495	-	MHz	
Pass band frequency	2300-2690	-	MHz	
Nominal impedance	50	-	ohm	
Insertion Loss in 2300~2690MHz at 25 deg C.	0.5 Max.	0.38	dB	
Insertion Loss in 2300~2690MHz at -40 to +105 deg C.	0.65 Max.	-	dB	
Return Loss in 2300~2690MHz	16 Min.	22.7	dB	
Ripple	0.4 Max.	0.15	dB	
Attenuation	4600 MHz - 8000 MHz	30 Min	32.2	dB
	8000 MHz - 12750 MHz	25 Min	27.6	dB
IIP3	45 Min.	48.7	dB	

4. Note

- | | |
|---------------------------------|--|
| 4.1 Operating Temperature Range | : -40 to +105 deg C. |
| 4.2 Storage Temperature Range | : -40 to +85 deg C. (goods alone)
: -20 to +35 deg C. (In a Taping Package) |
| 4.3 Standard Reel Quantity | : 3,000 pcs (per reel, per bag) |
| 4.4 Max input power (Avg/CW) | : 3W |

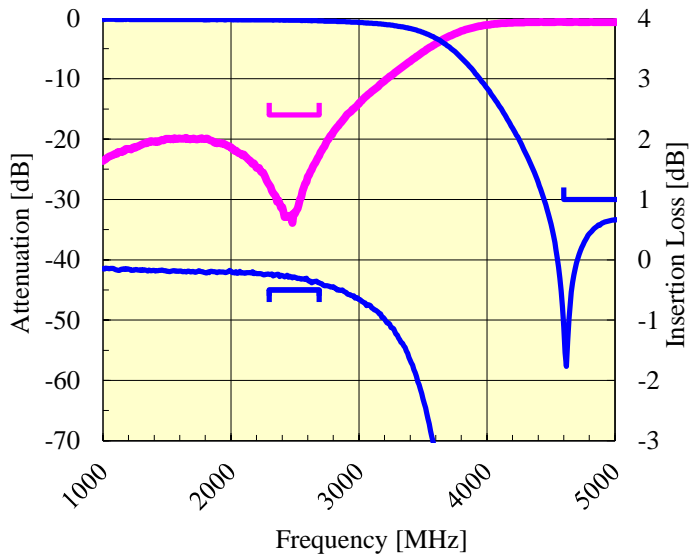
Approved by	Confirmed by	Raised by
Y. Mizutani	Y. Imai	K. Hamada

SOSHIN ELECTRIC CO., LTD

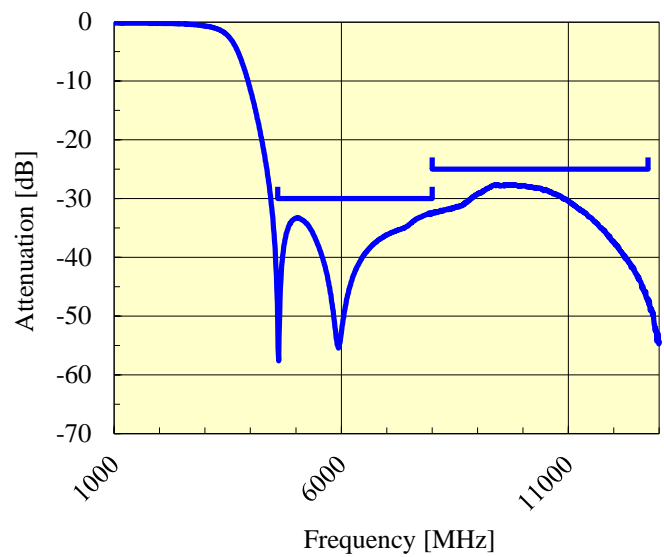
5.Representative characterisics

measured

Pass Band Frequency Response

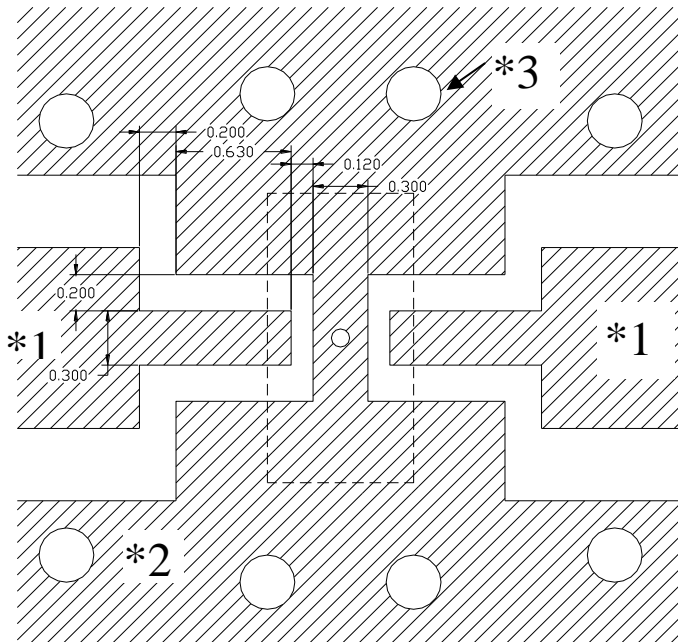


Broad Band Frequency Response

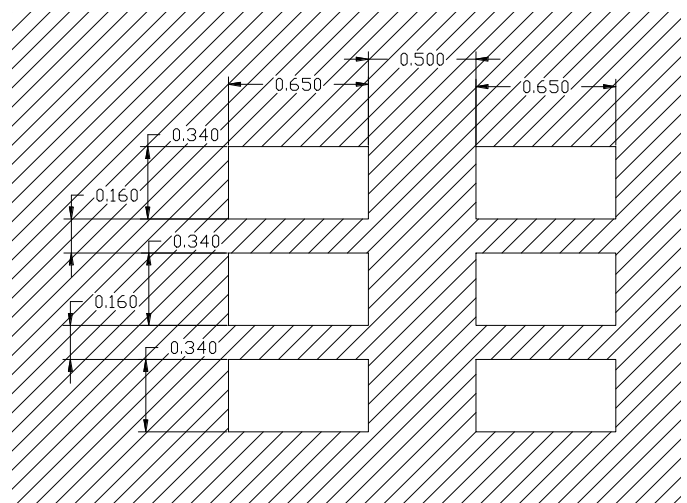


6.Recommended land pattern (Unit:mm)

*Land Pattern



*Resist Pattern



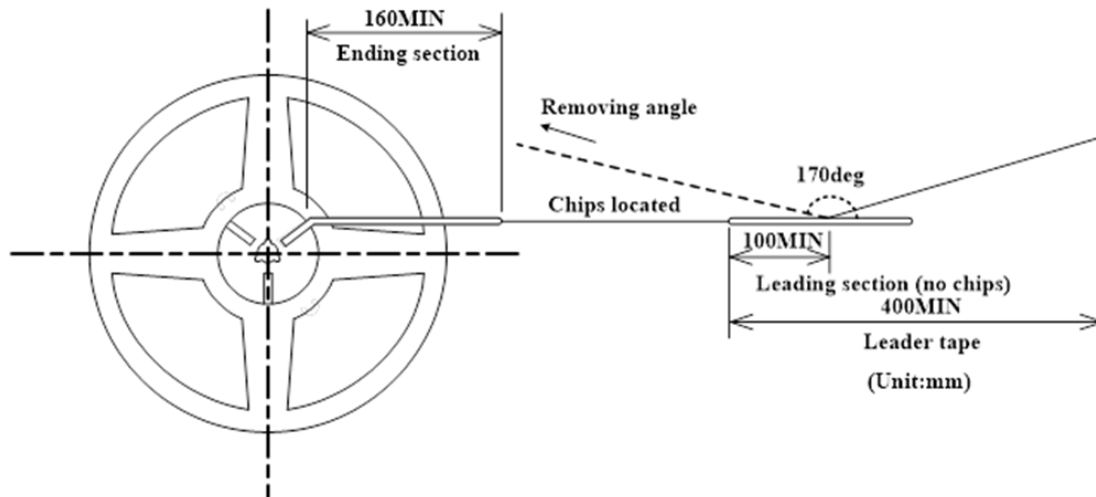
- *1 50 ohm Impedance Line
- *2 Ground Plane
- *3 Through Hole

7. Packing method

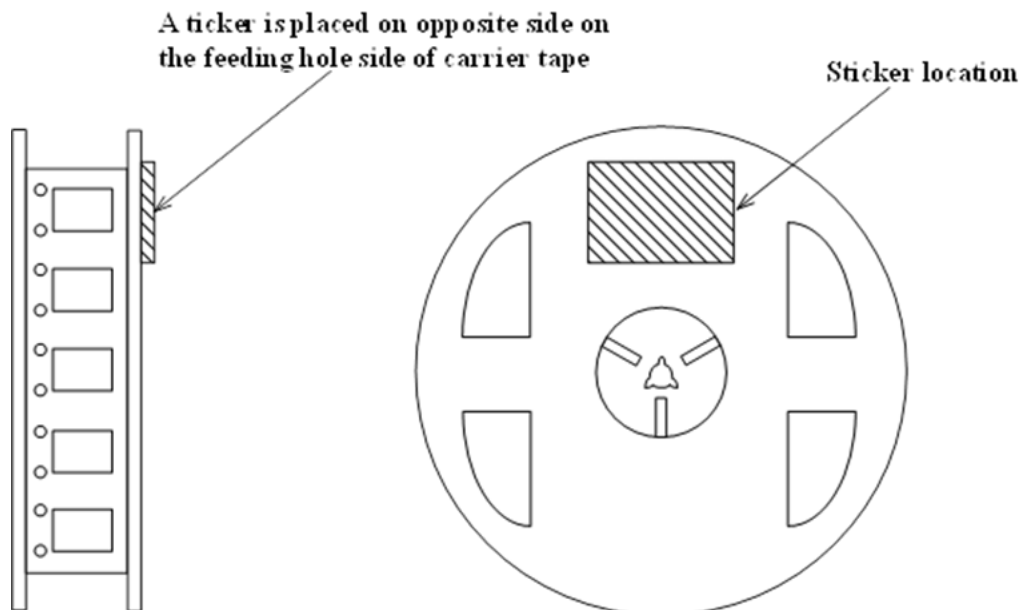
7.1 Taping conditions

Taping conditions are shown below. Refer to IEC60286-3

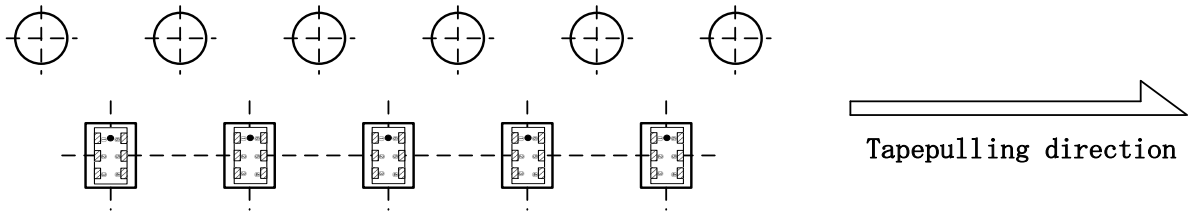
- (1) Tape must be wound clockwise with the feeding hole coming to the right hand side.
- (2) Top cover tape must not cover feeding holes of carrier tape and/or show out of carrier tape.
- (3) A blank section carrying no chips of a length of 160mm min. on ending section and 100mm min. on leading section must be provided.
- (4) A leading section of 400mm min. must be provided on top cover tape.



- (5) To end tape winding, the leading section of top cover tape must be stuck on a side of a reel with adhesive tape.
- (6) Removing force of top cover tape in the unwinding with an angle of 170 degrees between the removed side of a reel and carrier tape must be 0.1 to 1.0N.
- (7) When the embossed tape is turned upside down with the sealing tape peeled off, the filter body inside of the tape must fall off and the mounter must not cause a take-up mistake.
- (8) A sticker carrying Soshin product №, quantity, lot №, inspection date is to be placed on the specified side of reels. And Lot No. means our production control number. The shipment records are available if requested.



(9) Product orientation must be consistent. Products must not be positioned out of the mounting location.

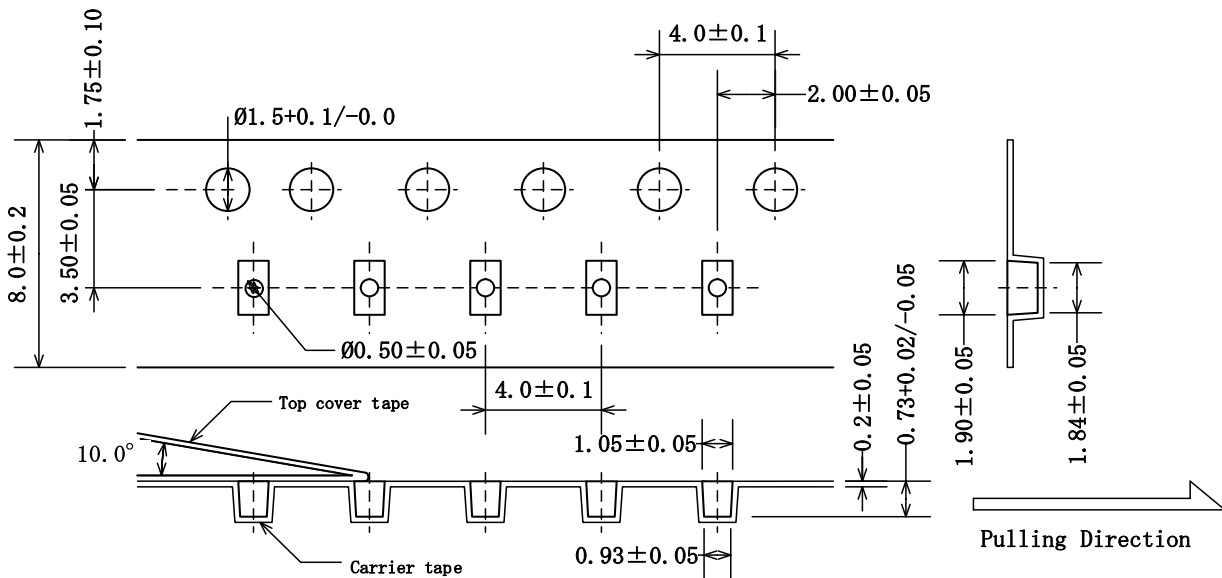


(10) A taping reel must be sealed in a plastic bag, individually.

(11) Tape-packaged quantity

The quantity is 3,000 pcs per single tape-package as a rule.

7.2 Dimensions of the carrier tape (Unit : mm)



7.3 Carrier tape reel dimensions (Unit : mm)

