

Product Information

Control No. : ARP-491200- D 1

Issued on April 13, 2020

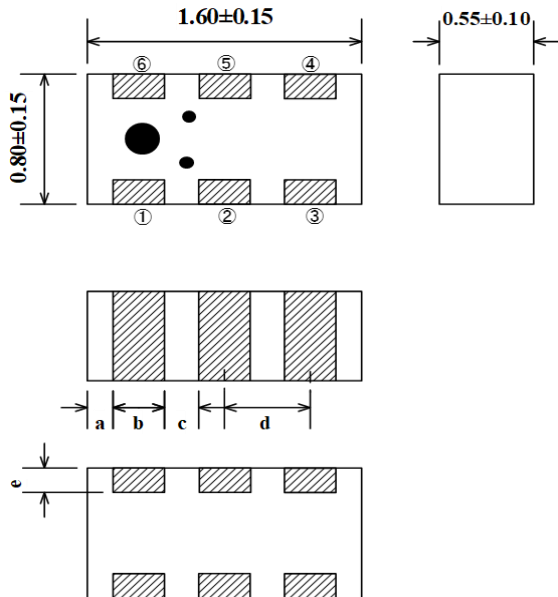
Application : 915MHz LPF

1. Type No.

HMD912D-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)	806.50	-	MHz	
Pass band frequency	698-915	-	MHz	
Nominal impedance	50	-	ohm	
Insertion Loss in 698~915MHz at 25 deg C.	0.90 Max.	0.59	dB	
Insertion Loss in 698~915MHz at -40 to +105 deg C.	1.10 Max.	-	dB	
Return Loss in 698~915MHz	16 Min.	18.7	dB	
Ripple	0.4 Max.	0.29	dB	
Attenuation	1396 MHz - 1830 MHz	15 Min.	21	dB 2f
	1830 MHz - 2094 MHz	28 Min.	37	dB
	2094 MHz - 2745 MHz	31 Min.	37	dB 3f
	2745 MHz - 7320 MHz	31 Min.	36	dB 4f-8f
	7320 MHz - 12750 MHz	15 Min.	21	dB
IIP3	45 Min.	49	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) |

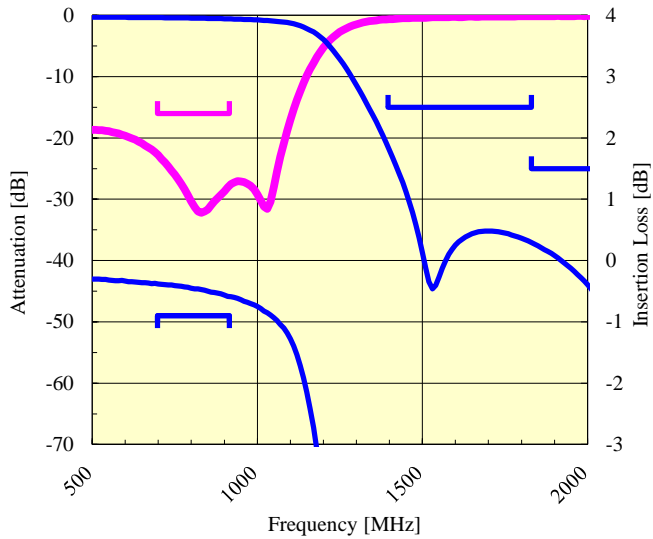
Approved by	Confirmed by	Raised by
Y.Mizutani	A.Mizuma	H.Isono

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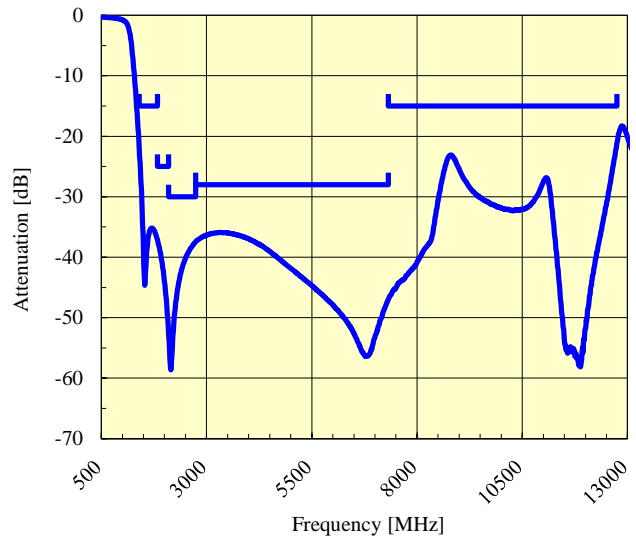
5. Representative characteristics

Measured

Pass Band Frequency Response

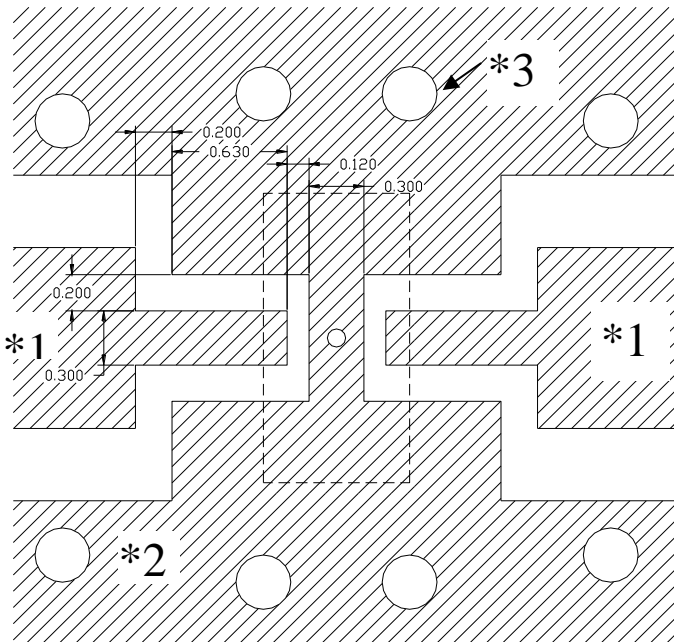


Broad Band Frequency Response

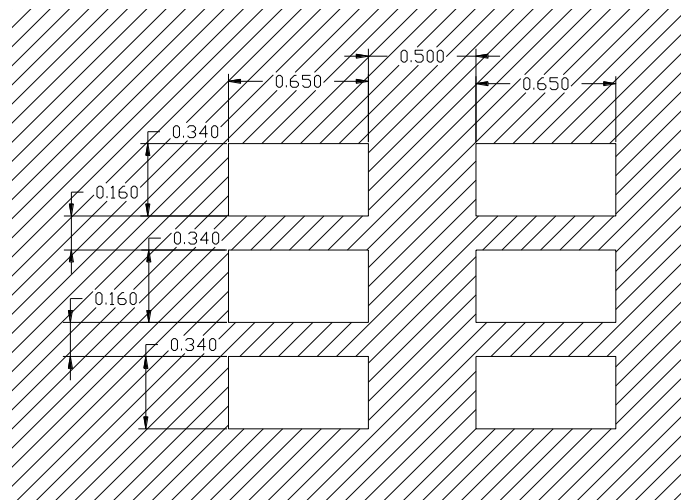


6. Recommended land pattern (Unit:mm)

***Land Pattern**



***Resist Pattern**



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

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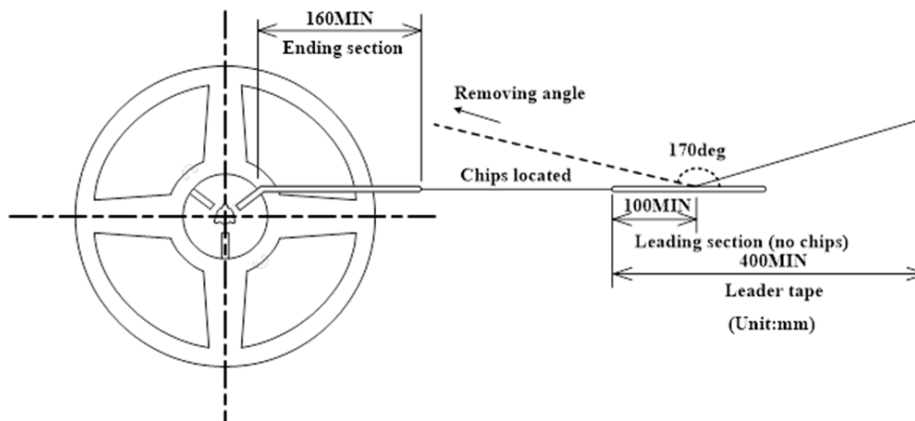
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7. Packing method

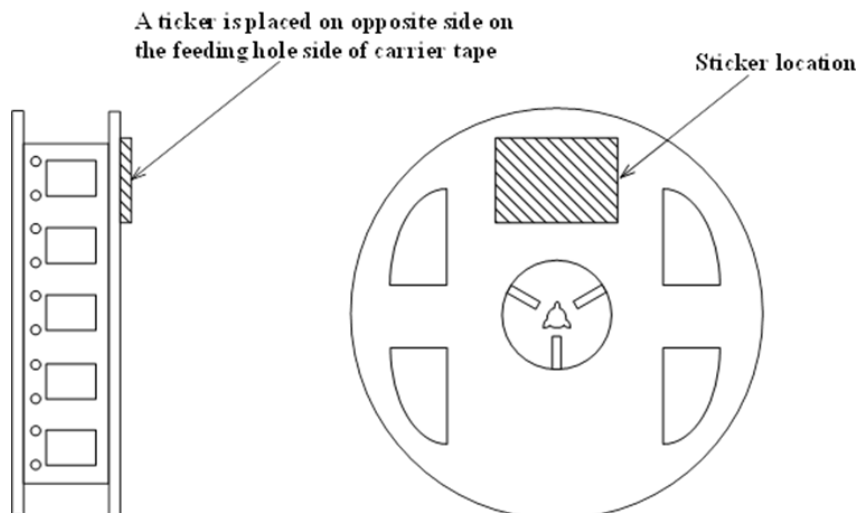
7.1 Taping conditions

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.



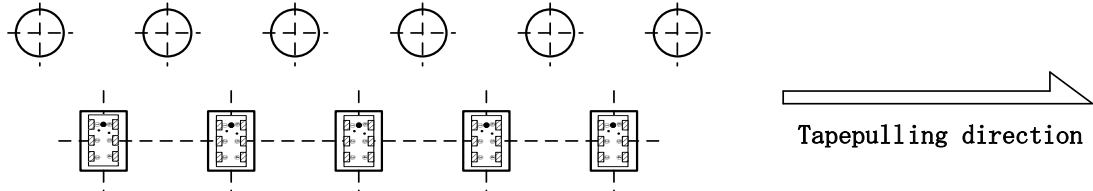
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(9) Product orientation must be consistent. Products must not be positioned out of the mounting location.

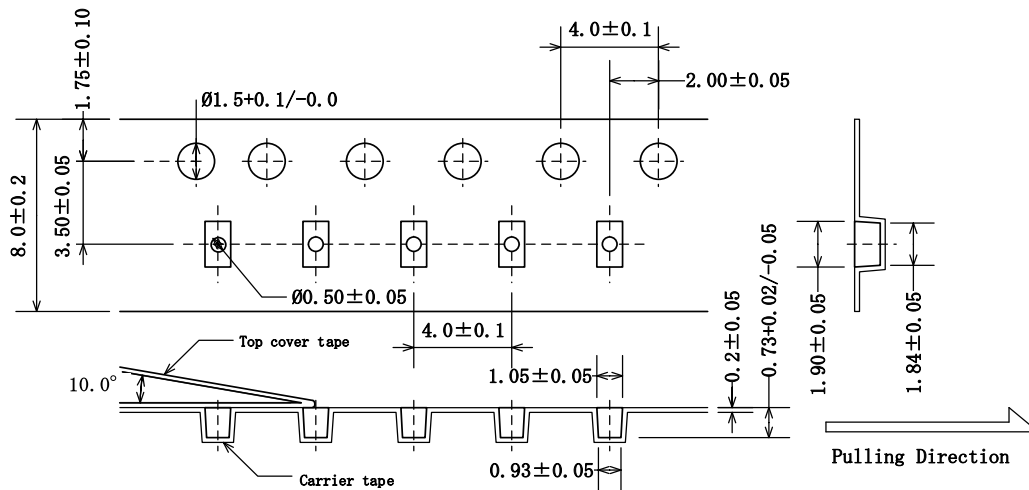


(10) A taping reel must be sealed in a plastic bag, individually.

(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)

