

Product Information

Control No. : ARP-4910300-H10 1

Issued on April 30, 2024

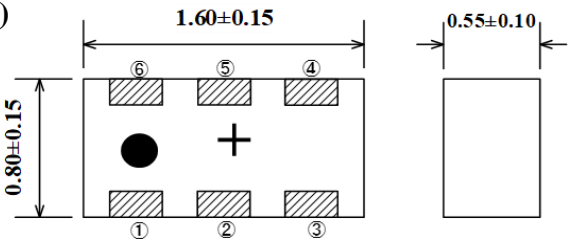
Measured

RoHS Compliant Part

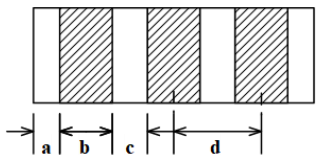
1. Type No.
HMD9103D - TII

2. Dimension (Unit : mm)

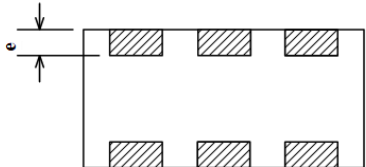
(Top view)



(Side view)



(Bottom view)



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

Pass band	Specification	Typical	Unit
fc (Center frequency)	1726.45	-	MHz
Pass band frequency	1427.9-2025	-	MHz
Nominal impedance	50	-	ohm
Insertion Loss in 1427.9~2025MHz at 25degC.	0.5 Max.	0.30	dB
Insertion Loss in 1427.9~2025MHz at -40 to +105degC.	0.7 Max.	0.50	dB
Return Loss in 1427.9~2025	16.0 Min.	18.6	dB
Ripple	0.40 Max.	0.12	dB

Attenuation		Specification	Typical	Unit
4428.12 MHz	- 4450 MHz	20 Min.	48.38	dB
4450 MHz	- 4900 MHz	35 Min.	49.40	dB
4900 MHz	- 5925 MHz	40 Min.	49.10	dB
5925 MHz	- 12750 MHz	25 Min.	27.54	dB

IIP3		Specification	Typical	Unit
1427.9 MHz	- 2025 MHz	45 Min.	49.61	dBm

4. Note

- 4.1 Operating Temperature Range
4.2 Storage Temperature Range
4.3 Standard Reel Quantity

- : -40 to +105 deg C.
: -40 to +85 deg C. (goods alone)
: -20 to +35 deg C. (In a Taping Package)
: 3,000 pcs (per reel, per bag)

	Approved by	Confirmed by	Raised by
	Y.Imai	S.Suzuki	R.Takahashi

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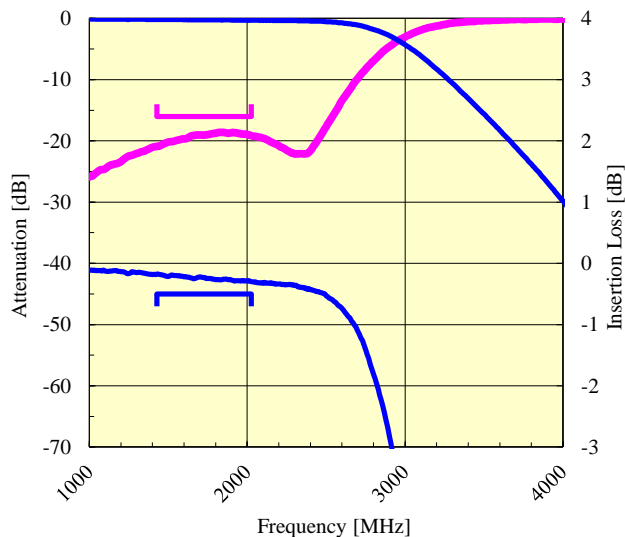
Control No. : ARP-4910300-H10 2

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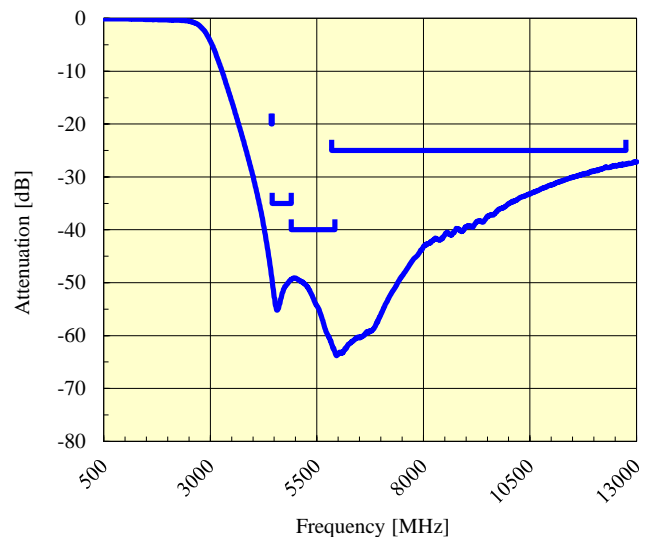
5.Representative characterisrics

Measured

Pass Band Frequency Response

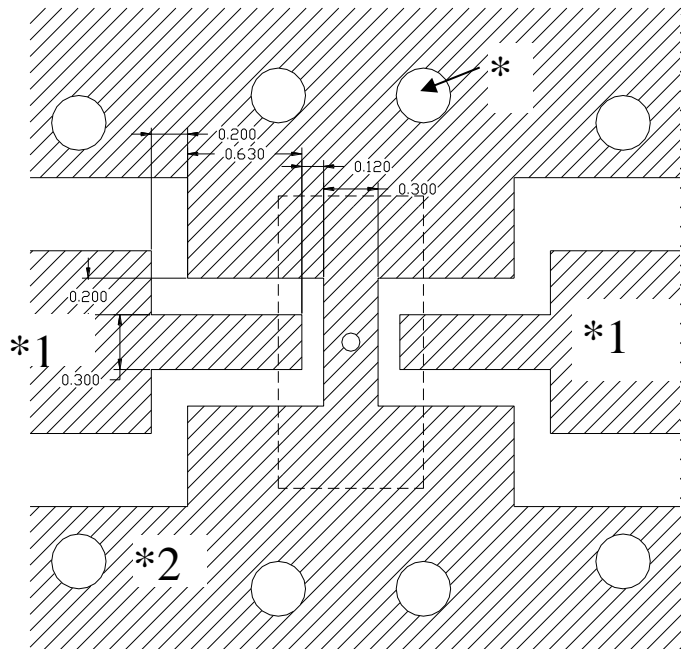


Broad Band Frequency Response

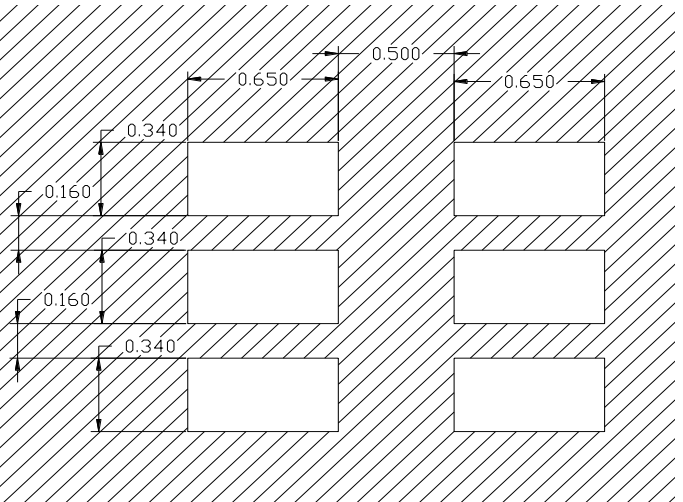


6.Recommended land pattern (Unit:mm)

*Land Pattern



*Resist Pattern



*1 50 ohm Impedance Line

*2 Ground Plane

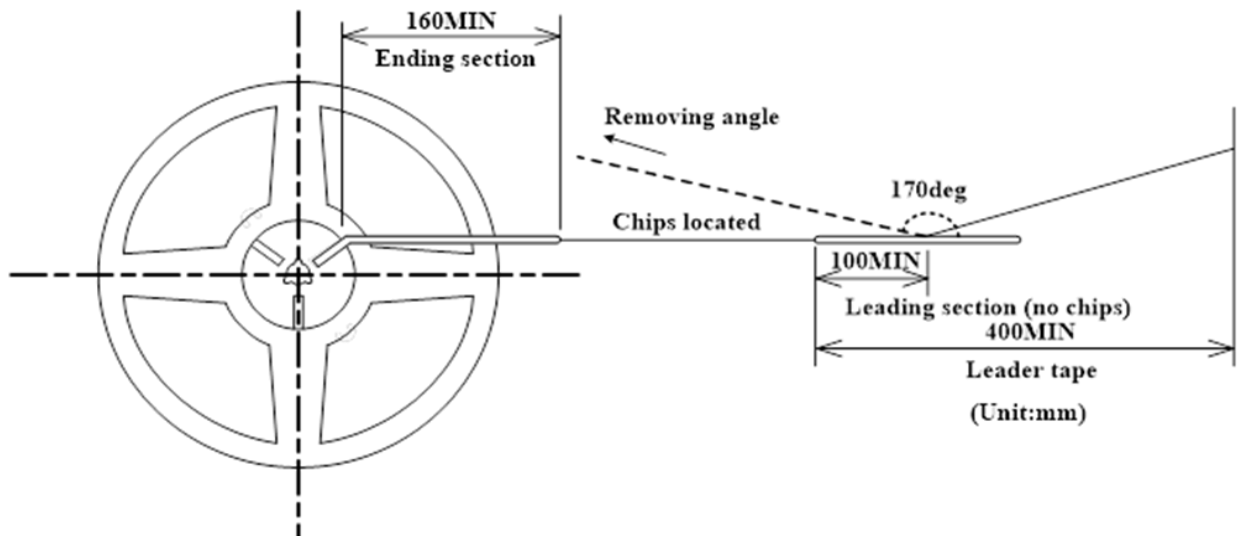
*3 Thorough Hole

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.

