

Product Information

Control No. : ARP-482100-H 1

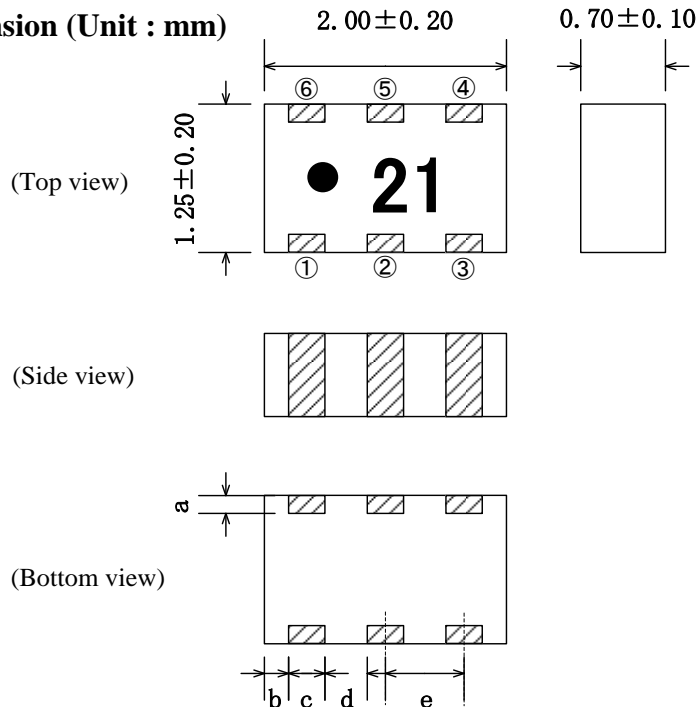
Issued on April 11, 2025

1. Type No.

HMD821F

RoHS Compliant Part

2. Dimension (Unit : mm)



Terminal	
①	GND
②	Input
③	GND
④	Output1
⑤	GND
⑥	Output2

Terminal Dimensions	
a	0.15typ.
b	0.20typ.
c	0.30 +/- 0.15
d	0.35 +/- 0.15
e	0.65 +/- 0.15

3. Electrical characteristics

Parameter	Specification	Typical	Unit	Remark
Frequency range	1700-2200	-	MHz	
Nominal impedance	50	-	ohm	
Insertion Loss at 25degC.	0.5 Max.	0.20	dB	
Return Loss	10 Min.	16.3	dB	
Isolation	15 Min.	20.1	dB	
Amplitude balance	0.2 Max.	0.06	dB	
Phase balance	2 Max.	0.38	deg	

4. Note

- 4.1 Operating Temperature Range
- 4.2 Storage Temperature Range
- 4.3 Max input power (Avg/CW)
- 4.4 Standard Reel Quantity

: -40 to +105 degC.
: -20 to +35 degC. (In a Taping Package)
: 3W
: 2,000 pcs (per reel, per bag)

	Approved by	Confirmed by	Raised by
	Y.Imai	S.Suzuki	M.Kawano

SOSHIN ELECTRIC CO., LTD

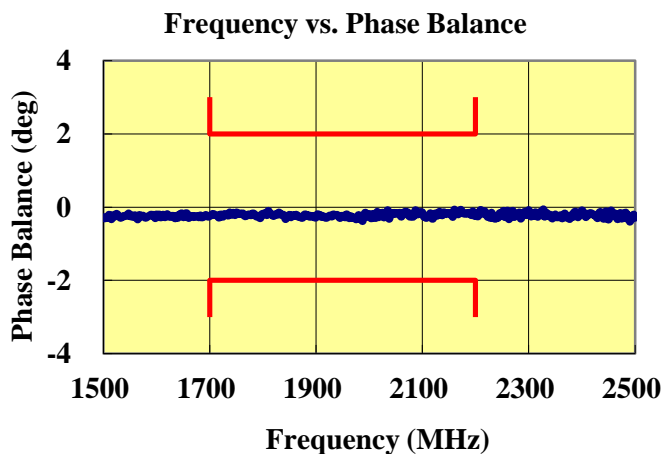
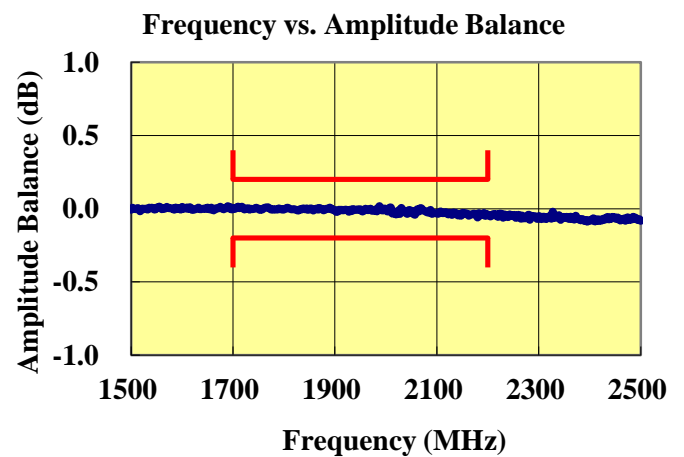
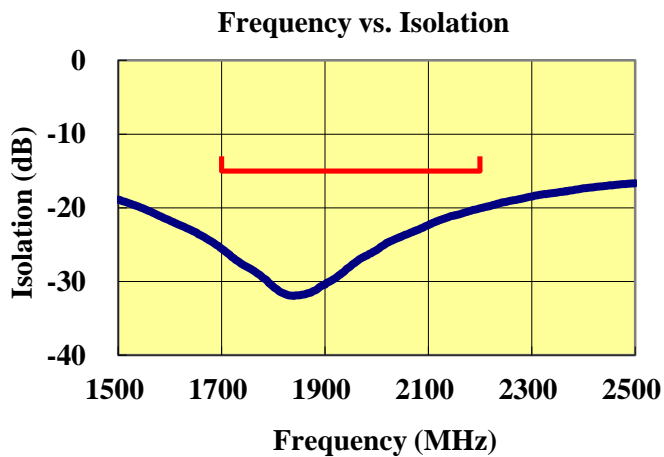
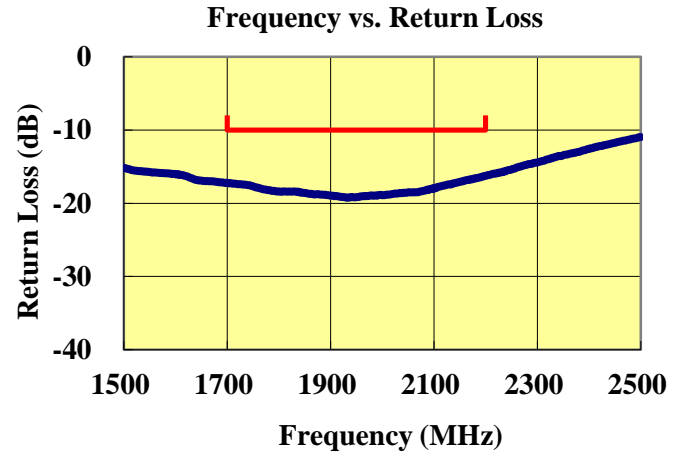
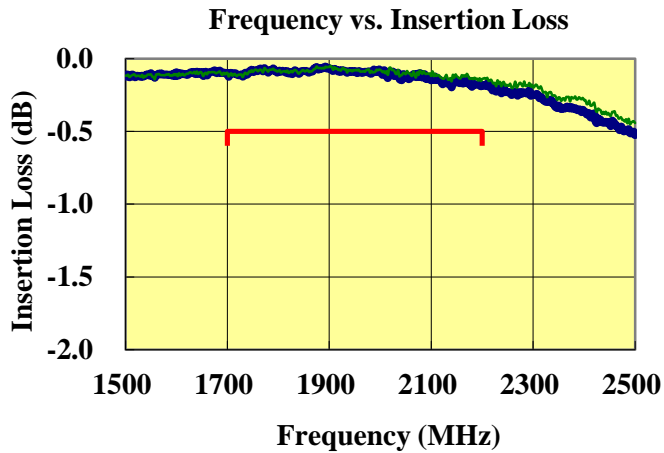
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5.Representative characteristics

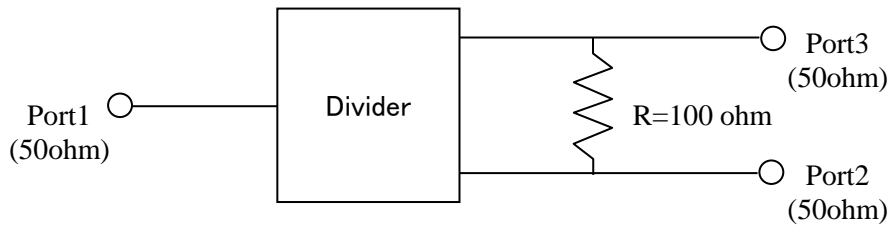
Measured



Control No. : ARP-482100-H 3

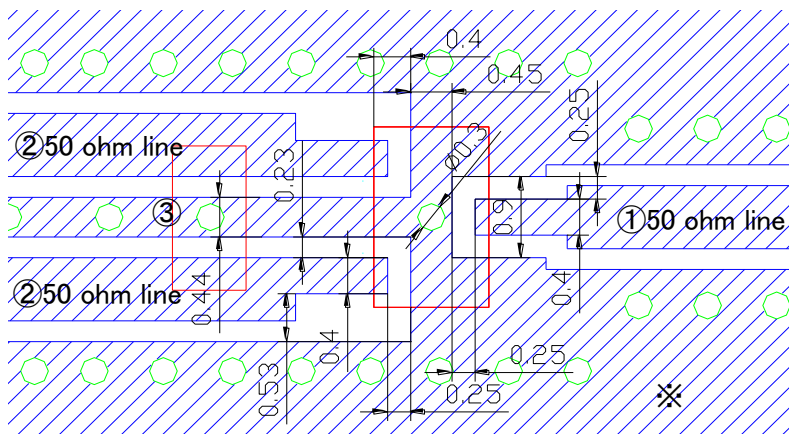
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6.Measurement Circuit

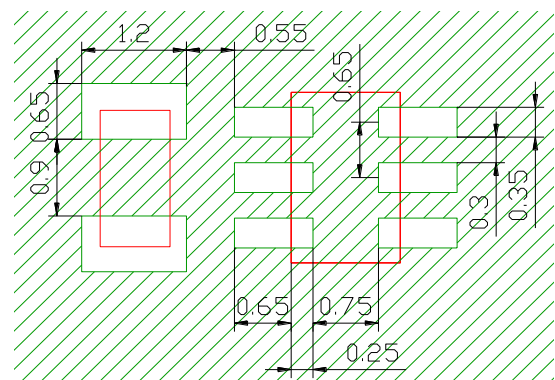


7.Recommended Land Pattern (Unit:mm)

Land Pattern

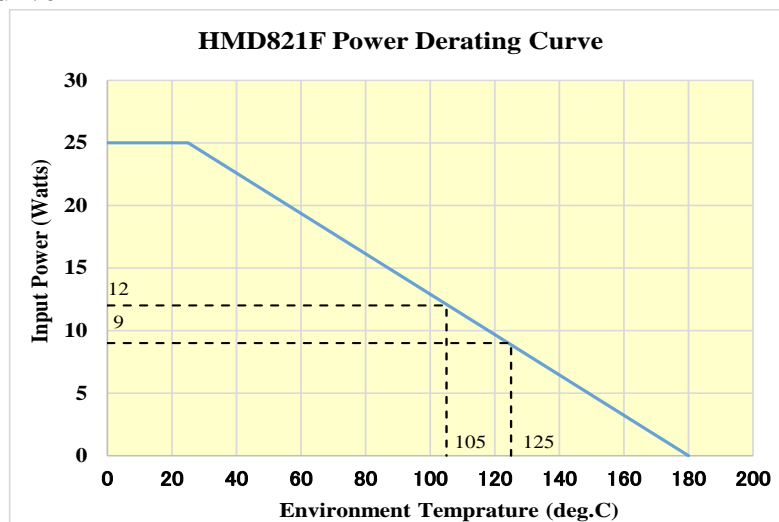


Resist Pattern



- ① Input
② Output1,2
③ 1608Size R=100ohm
※ GND

8.Power Derating Curve

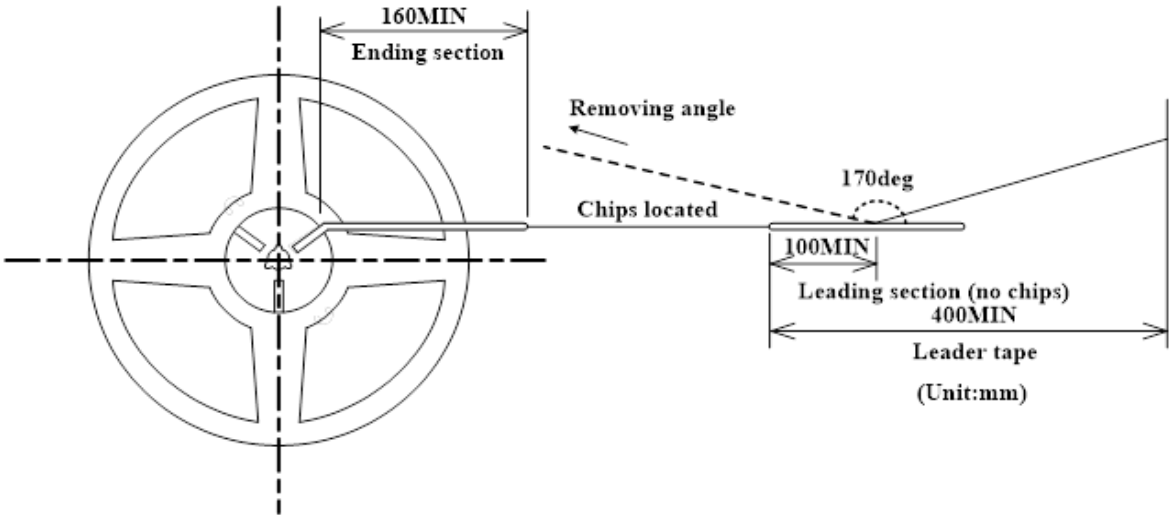


7. Packing method

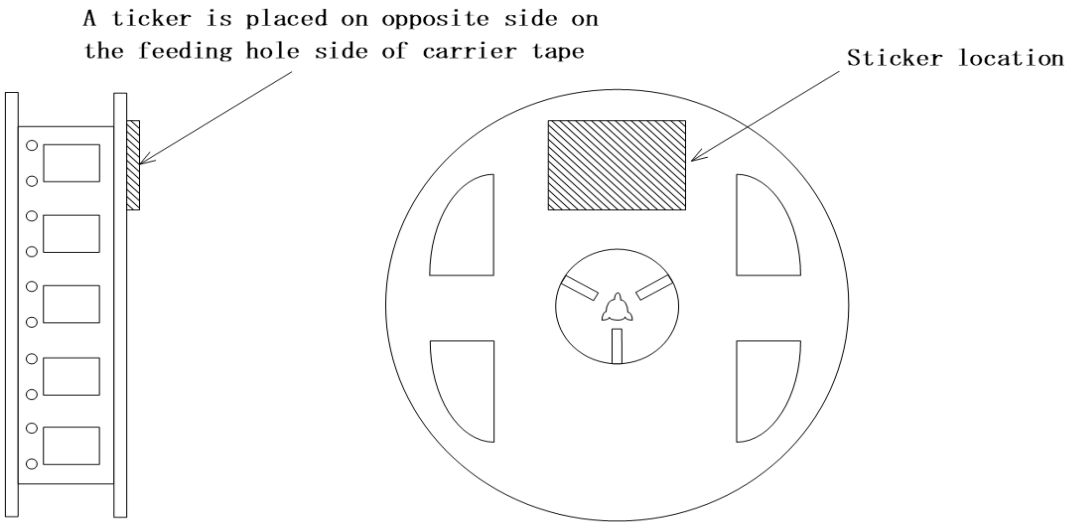
7. 1 Taping conditions

Taping conditions are shown below. Refer to IEC60286-3

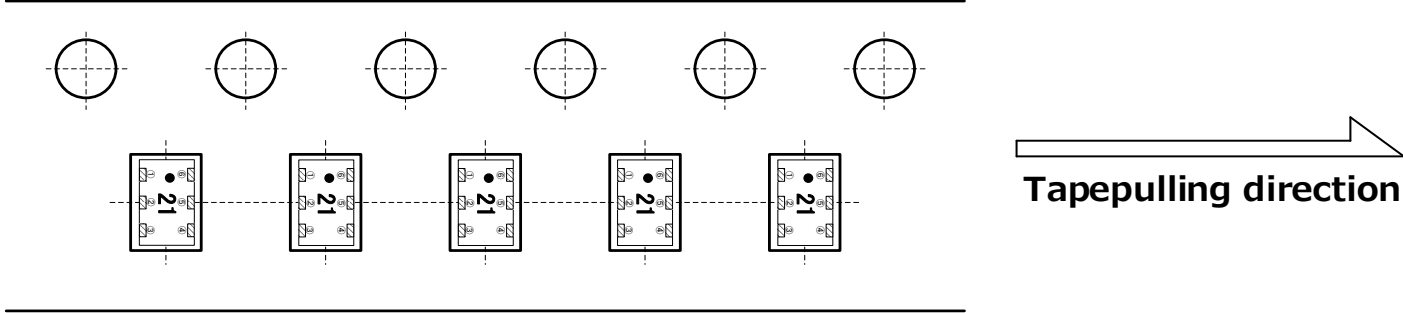
- (1) Tape must be wound clockwise with the feeding hole coming to the right hand side.
- (2) Top cover tape must not cover feeding holes of carrier tape and/or show out of carrier tape.
- (3) A blank section carrying no chips of a length of 160mm min. on ending section and 100mm min. on leading section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

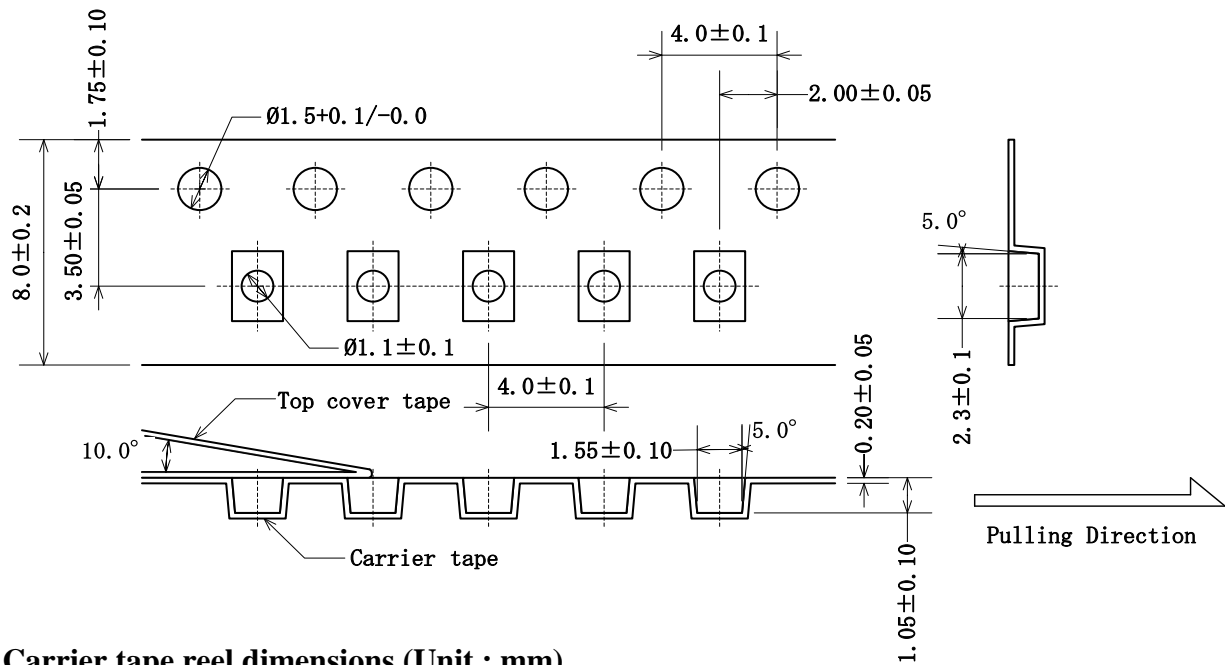


(9) Product orientation must be consistent. Products must not be positioned out of the mounting location.



- (10) A taping reel must be sealed in a plastic bag, individually.
- (11) Tape-packaged quantity
The quantity is 2,000 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)

