

Product Information

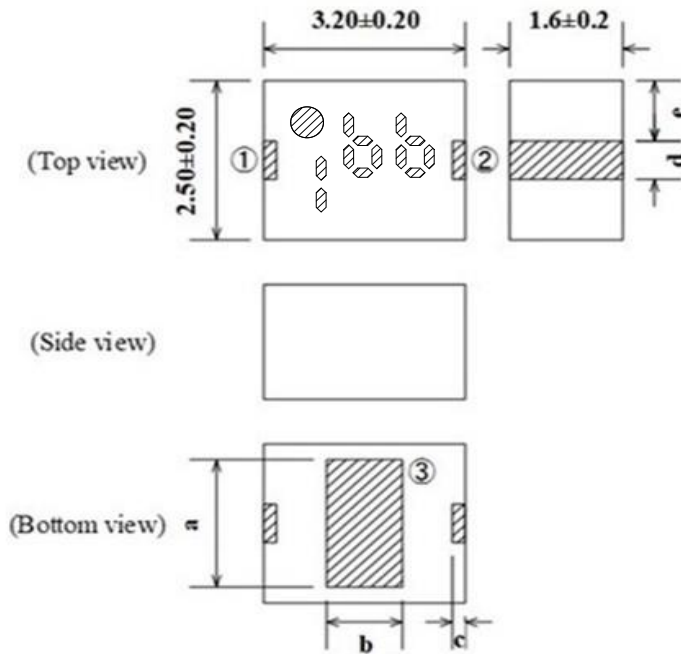
Control No. : ARP-4616600-G 1

Issued on May 16, 2024

1. Type No.

HMD6166B

2. Dimension (Unit : mm)



Measured Data

RoHS Compliant Part

Terminal	
①	Input
②	Output
③	GND

Terminal Dimensions	
a	2.00 Typ.
b	1.20 Typ.
c	0.30 ± 0.15
d	0.60 ± 0.20
e	0.95 Typ.

3. Electrical characteristics

Parameters	Specification	Measured	Unit	Remark
Frequency range	3300-3600	-	MHz	
Nominal Impedance	50	-	ohm	
Insertion loss at 25degC.	1.2 Max.	0.60	dB	
Ripple	0.6 Max.	0.10	dB	
V.S.W.R.	1.67 Max.	1.08		
Attenuation	at 350 MHz - 655 MHz	30 Min.	42.4	dB
	at 2295 MHz - 2600 MHz	35 Min.	36.6	dB
	at 5245 MHz - 5550 MHz	20 Min.	51.1	dB
	at 6245 MHz - 6550 MHz	10 Min.	48.0	dB
	at 8195 MHz - 8500 MHz	20 Min.	46.7	dB
	at 9195 MHz - 9500 MHz	20 Min.	57.3	dB
	at 11145 MHz - 11450 MHz	20 Min.	40.6	dB

4. Note

4.1 Operating Temperature Range

: -40 to +85 deg C.

4.2 Storage Temperature Range before soldering in taping package

: -20 to +35 deg C.

4.3 Standard Reel Quantity

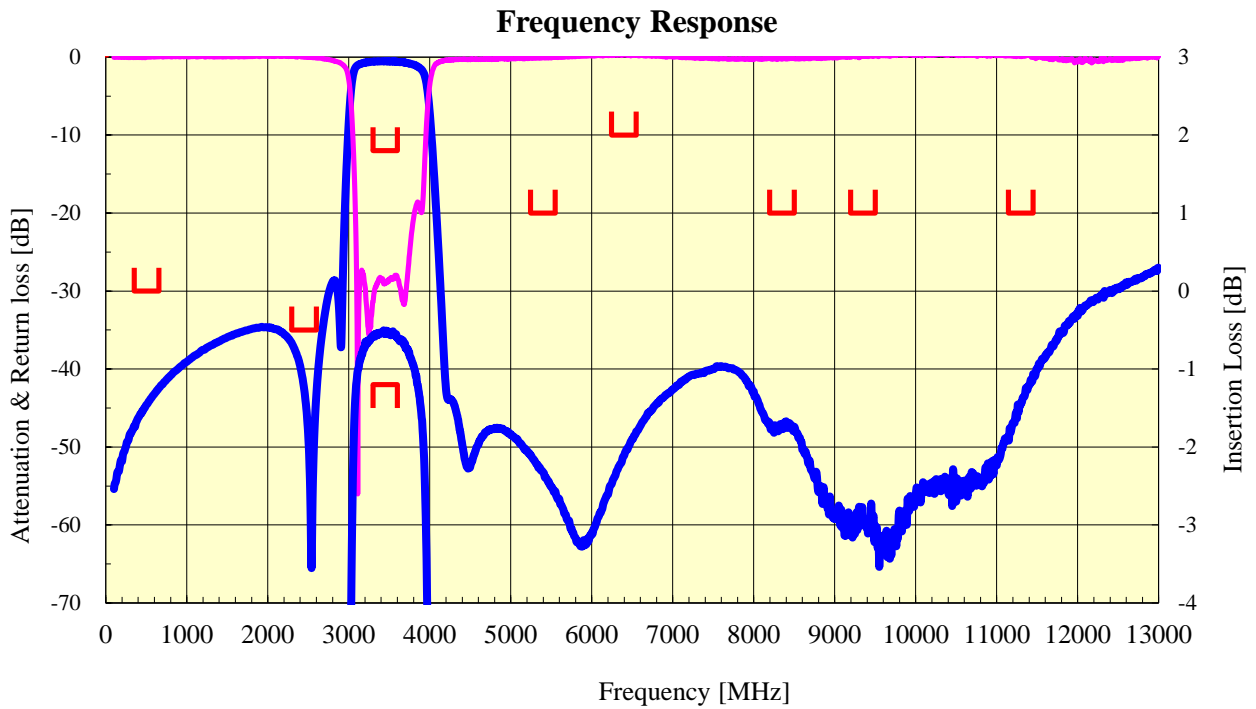
: 2,000 pcs (per reel, per bag)

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

SOSHIN ELECTRIC CO., LTD.

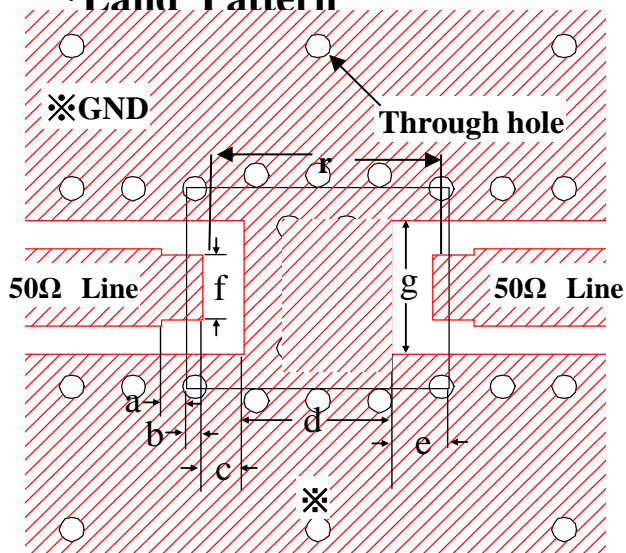
5. Representative characteristics

Measured Data



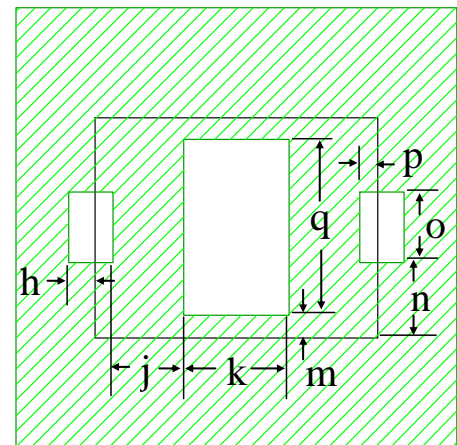
6. Recommended Land Pattern

*Land Pattern



- | | |
|------------------|------------------|
| a 0.30 mm | e 0.45 - 0.80 mm |
| b 0.20 mm | f 0.80 mm |
| c 0.25 - 0.60 mm | g 1.66 mm |
| d 1.60 - 2.30 mm | r 2.80 mm |

*Resist Pattern



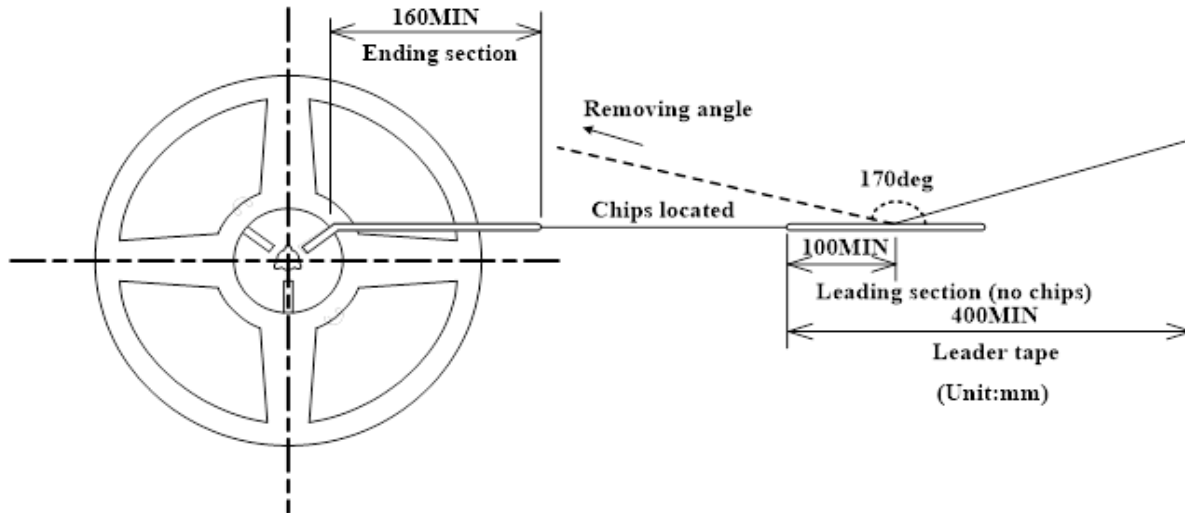
- | | |
|-----------|-----------|
| h 0.30 mm | n 0.85 mm |
| j 0.80 mm | o 0.80 mm |
| k 1.20 mm | p 0.20 mm |
| m 0.25 mm | q 2.00 mm |

7. Packing method

7. 1 Taping conditions

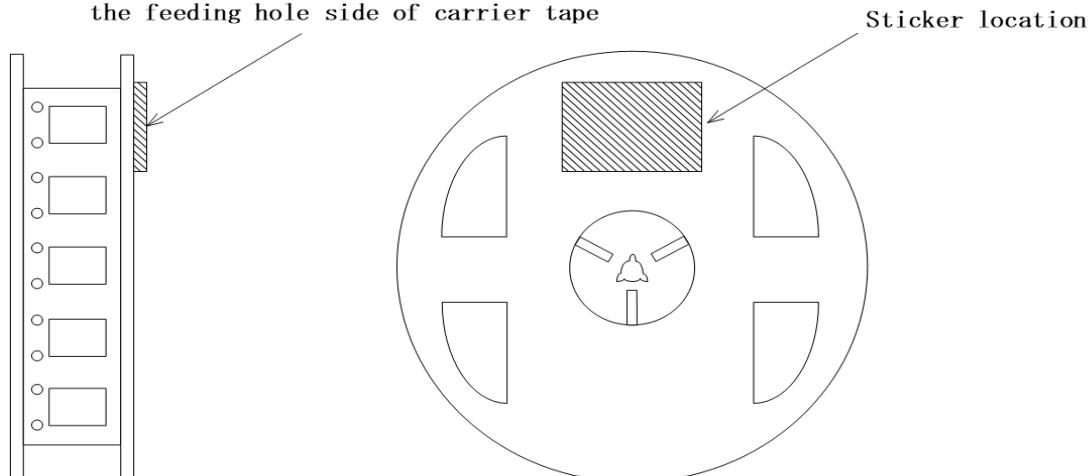
Taping conditions are shown below. Refer to IEC60286-3

- (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.

A ticker is placed on opposite side on the feeding hole side of carrier tape

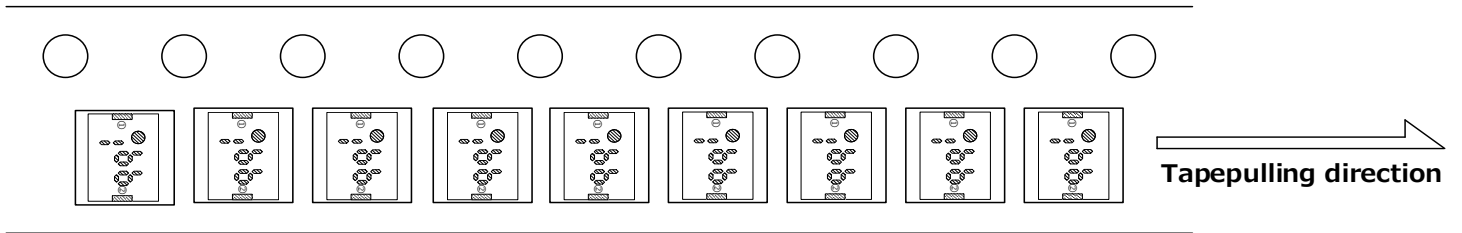


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(9) Product orientation must be consistent. Products must not be positioned out of the mounting location.

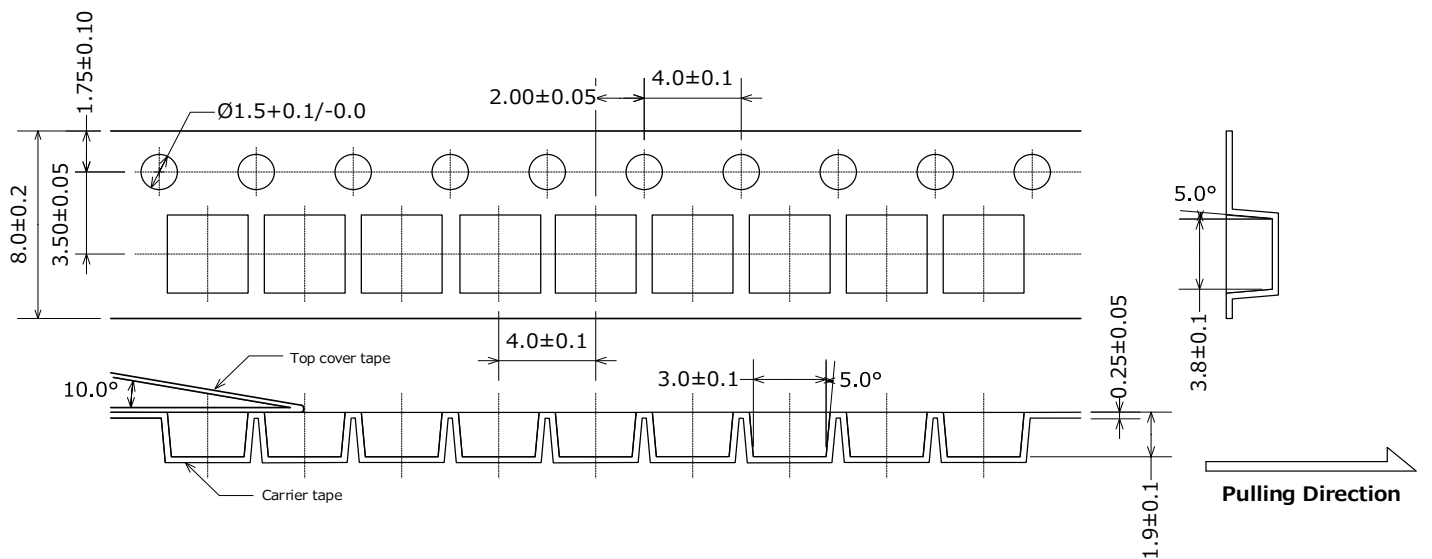


(10) A taping reel must be sealed in a plastic bag, individually.

(11) Tape-packaged quantity

The quantity is 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)

