

Product Information

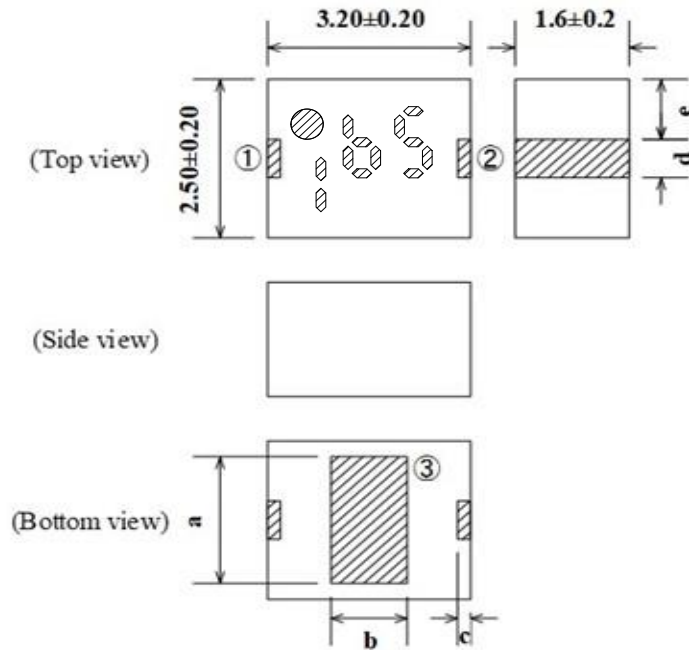
Control No. : ARP-4616500-F 1

Issued on May 16, 2024

1. Type No.

HMD6165B

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	3050-3850	-	MHz	
Nominal Impedance	50	-	ohm	
Insertion loss at 25degC.	1.5 Max.	1.06	dB	
Ripple	0.8 Max.	0.73	dB	
V.S.W.R.	1.67 Max.	1.34		
Attenuation	at 100 MHz - 905 MHz	20 Min.	39.8	dB
	at 2045 MHz - 2850 MHz	30 Min.	32.5	dB
	at 4995 MHz - 5800 MHz	20 Min.	22.0	dB
	at 5995 MHz - 6800 MHz	35 Min.	44.5	dB
	at 7945 MHz - 8750 MHz	20 Min.	24.1	dB
	at 8945 MHz - 9750 MHz	20 Min.	23.8	dB
	at 10895 MHz - 11700 MHz	25 Min.	26.1	dB
	at 11895 MHz - 12700 MHz	20 Min.	28.1	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

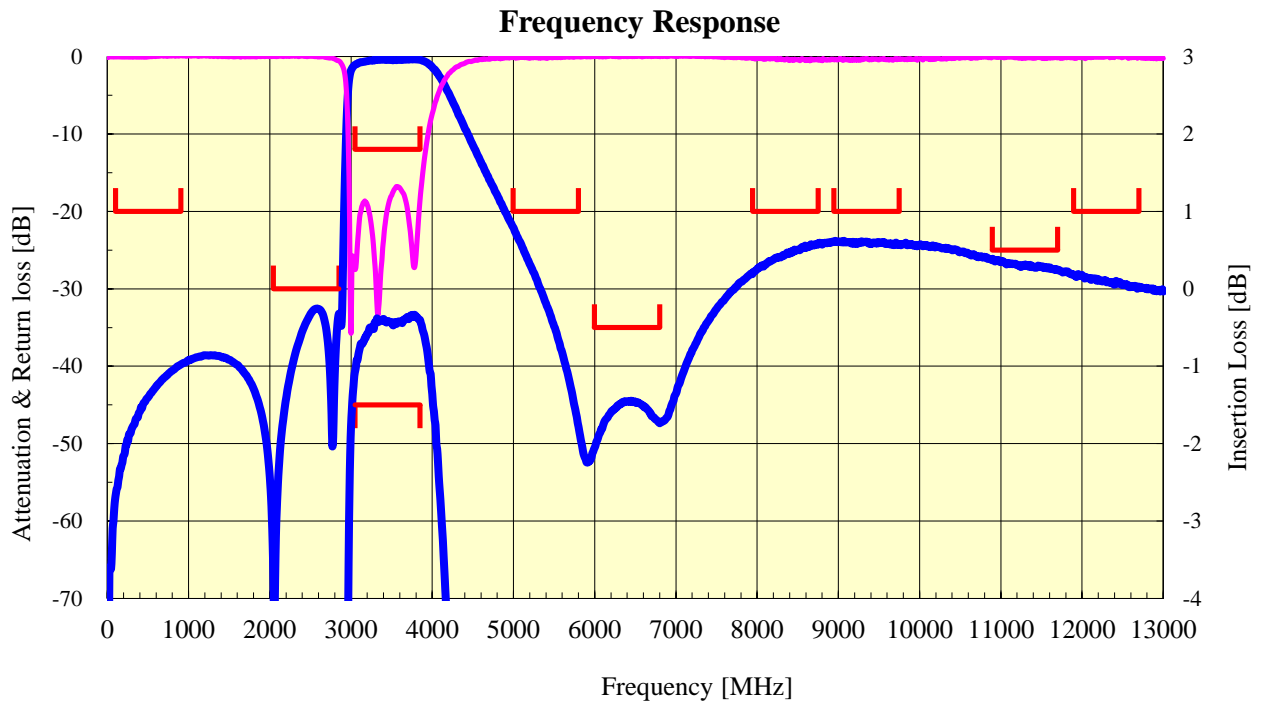
: 2,000 pcs (per reel, per bag)

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

SOSHIN ELECTRIC CO., LTD.

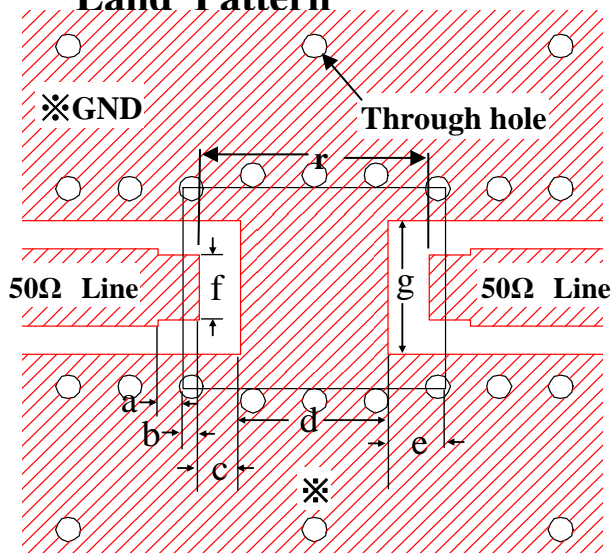
5. Representative characteristics

Measured Data



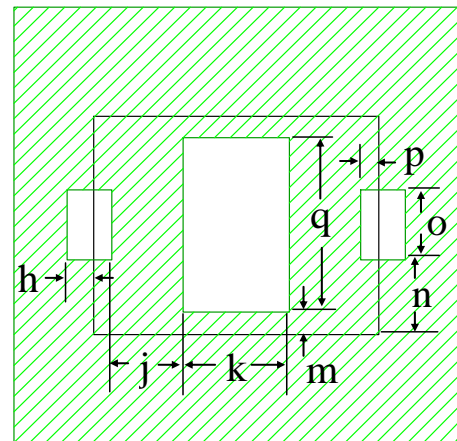
6. Recommended Land Pattern

*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



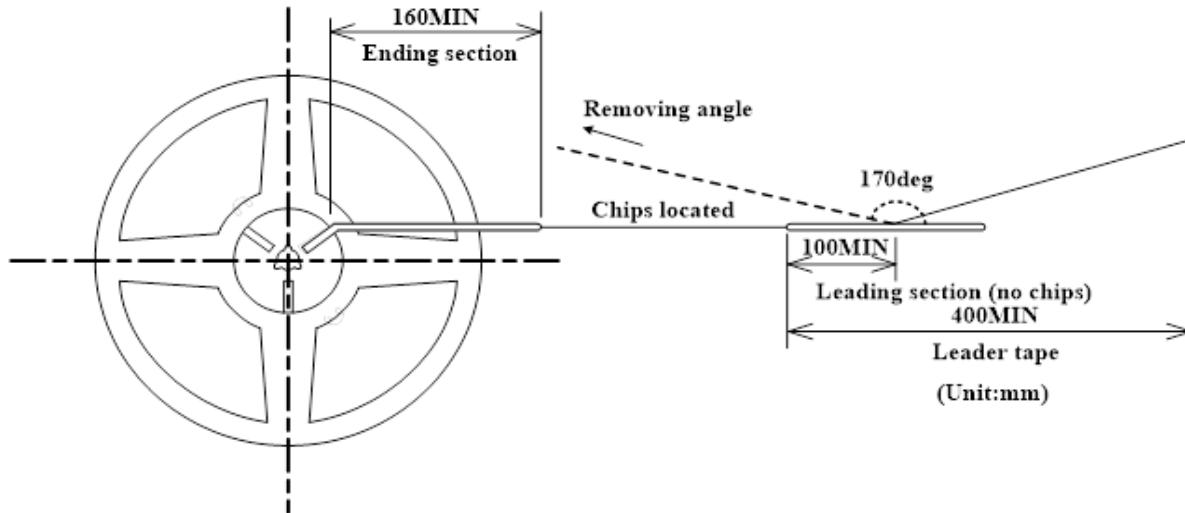
h 0.30 mm	n 0.85 mm
j 0.80 mm	o 0.80 mm
k 1.20 mm	p 0.20 mm
m 0.25 mm	q 2.00 mm

7. Packing method

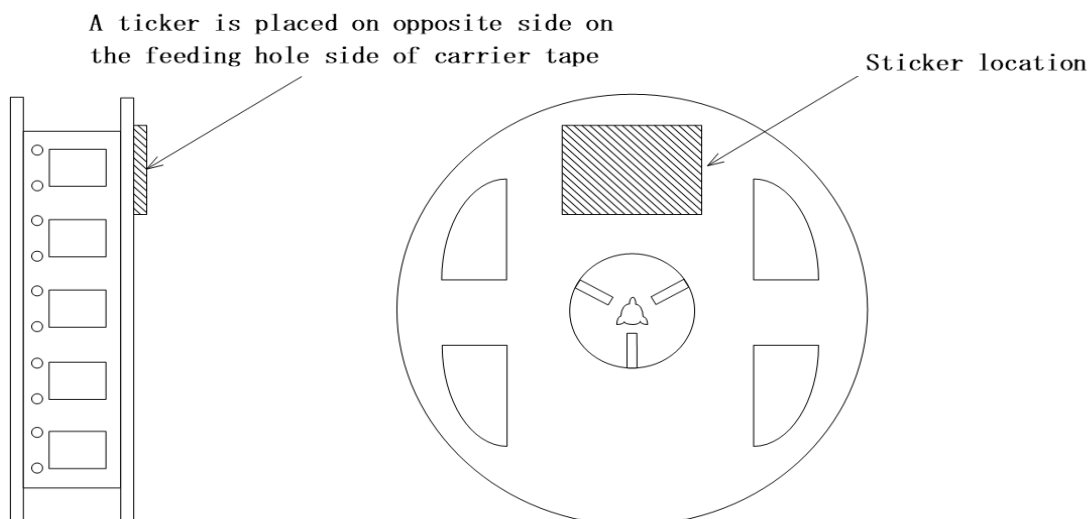
7. 1 Taping conditions

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.

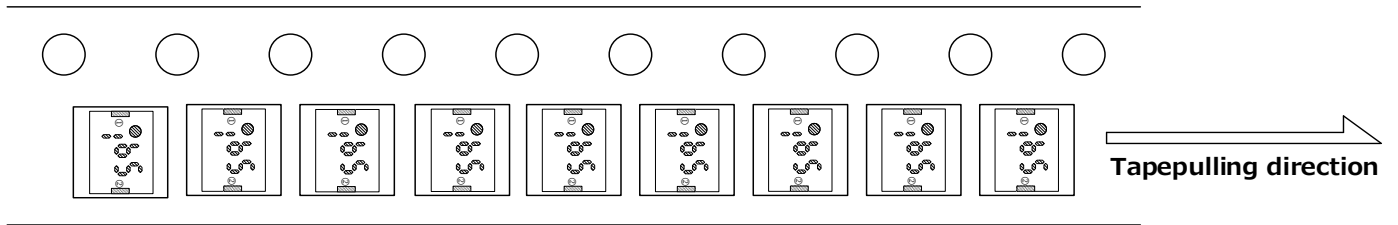


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(9) Product orientation must be consistent. Products must not be positioned out of the mounting location.

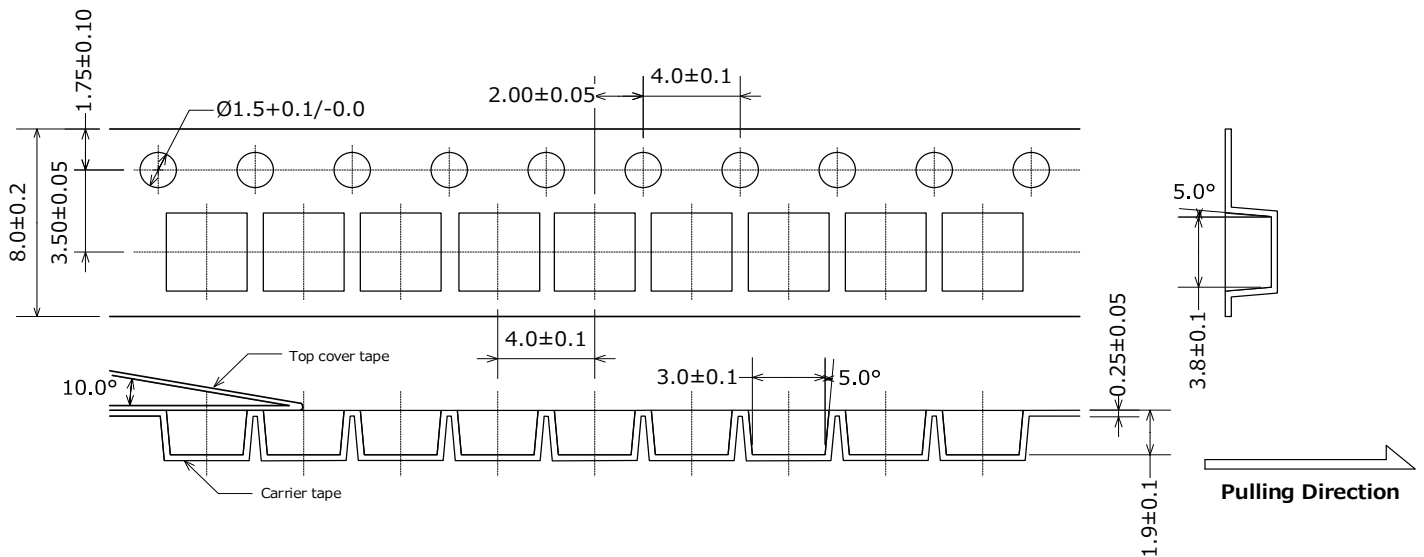


(10) A taping reel must be sealed in a plastic bag, individually.

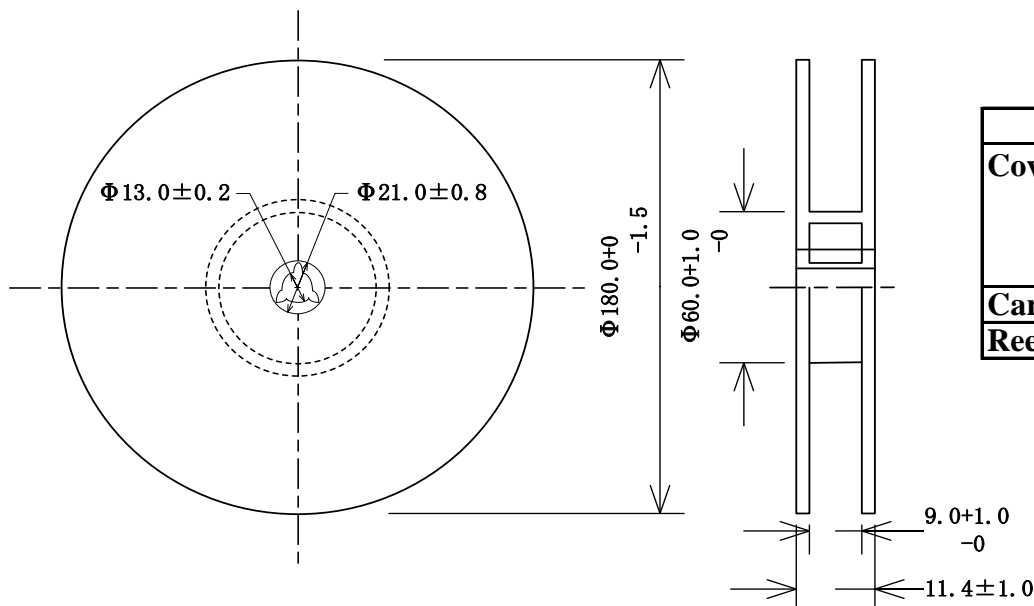
(11) Tape-packaged quantity

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)



Material	
Cover tape	Polyester + LDPE + PSresin + Conductive coat
Carrier tape	PS+Carbon
Reel	PS