

# Product Information

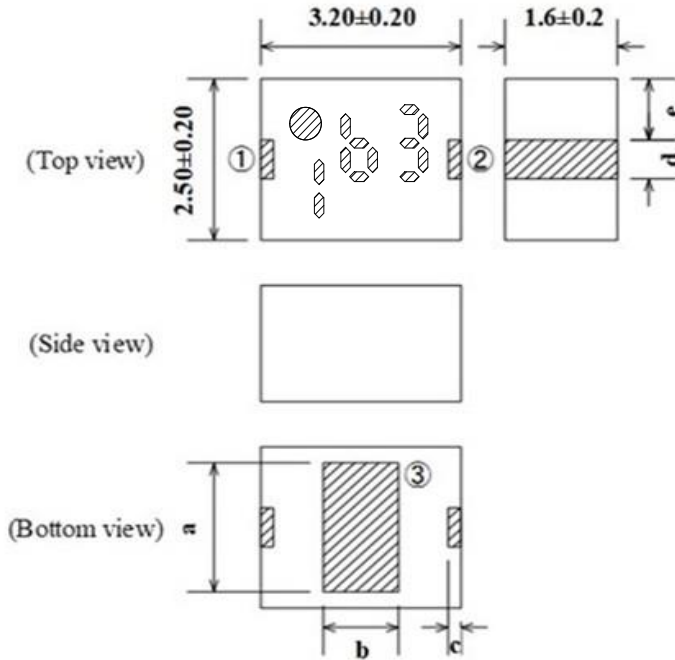
Control No. : ARP-4616300-G 1

Issued on May 16, 2024

## 1. Type No.

HMD6163B

## 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	$0.30 \pm 0.15$
d	$0.60 \pm 0.20$
e	0.95 Typ.

## 3. Electrical characteristics

Parameters	Specification	Measured	Unit	Remark
Frequency range	3400-3800	-	MHz	
Nominal Impedance	50	-	ohm	
Insertion loss at 25degC.	1.2 Max.	0.69	dB	
Ripple	0.6 Max.	0.14	dB	
V.S.W.R.	1.67 Max.	1.10		
Attenuation	at 450 MHz - 855 MHz	30 Min.	41.2	dB
	at 2095 MHz - 2500 MHz	35 Min.	37.0	dB
	at 5045 MHz - 5450 MHz	20 Min.	49.0	dB
	at 6345 MHz - 6750 MHz	10 Min.	48.6	dB
	at 7995 MHz - 8400 MHz	15 Min.	44.9	dB
	at 9295 MHz - 9700 MHz	15 Min.	50.3	dB
	at 10945 MHz - 11350 MHz	15 Min.	47.1	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

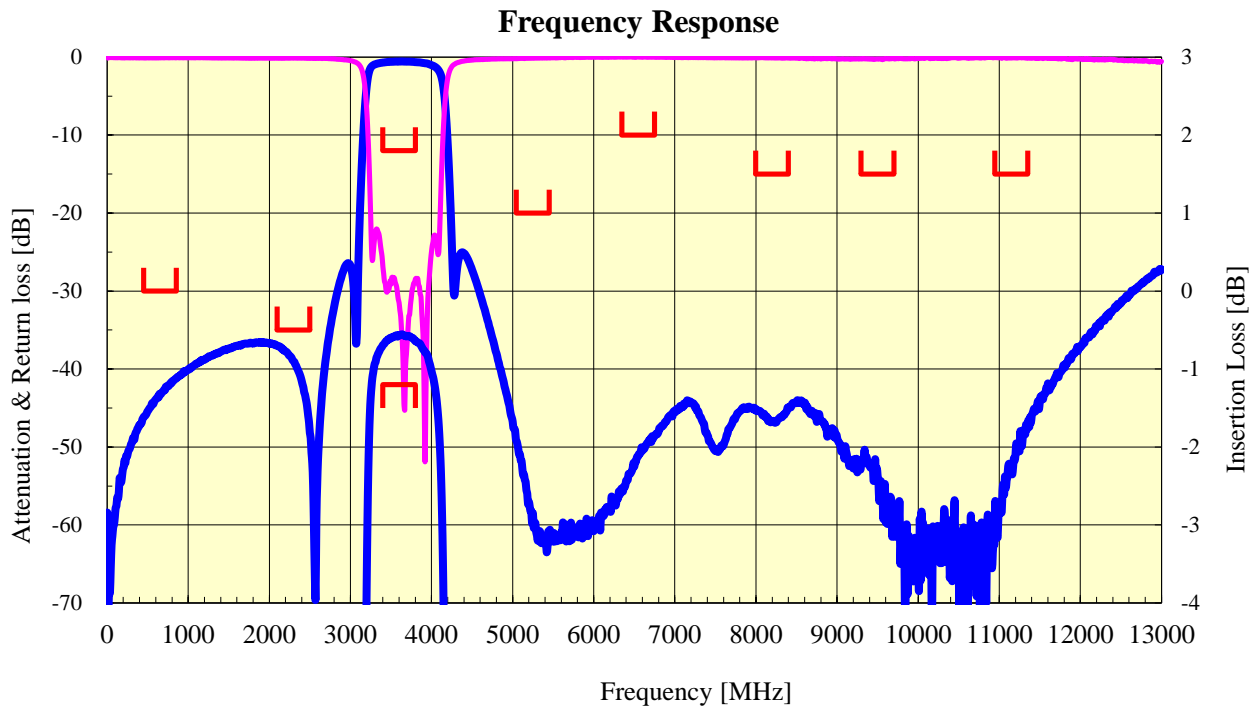
: 2,000 pcs (per reel, per bag)

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

SOSHIN ELECTRIC CO., LTD.

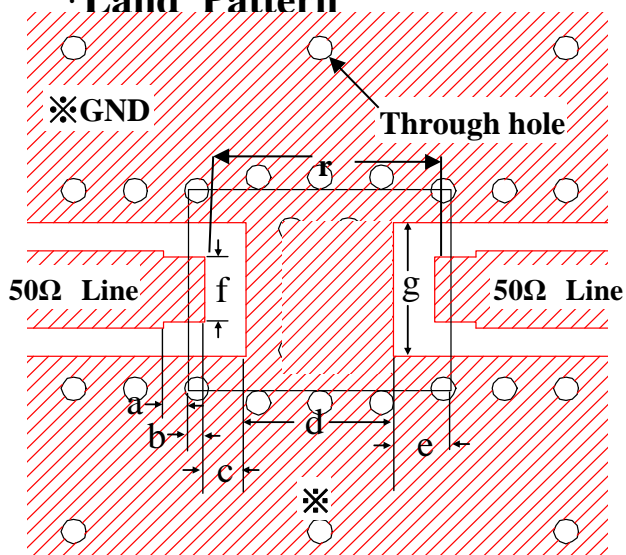
## 5. Representative characteristics

Measured Data



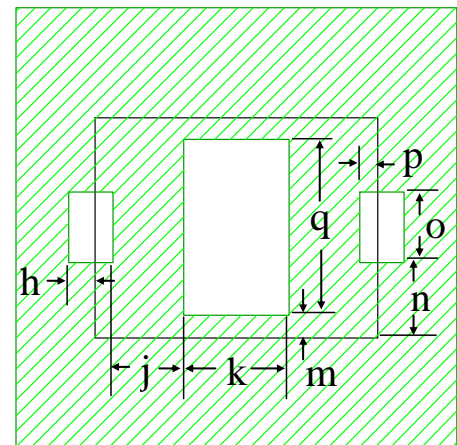
## 6. Recommended Land Pattern

### \*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



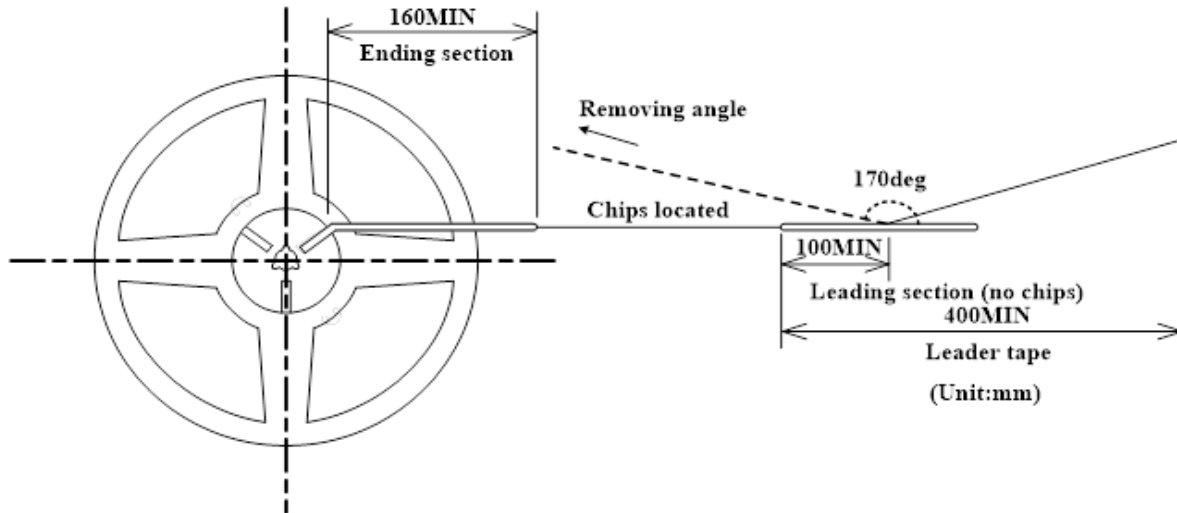
h 0.30 mm	n 0.85 mm
j 0.80 mm	o 0.80 mm
k 1.20 mm	p 0.20 mm
m 0.25 mm	q 2.00 mm

## 7. Packing method

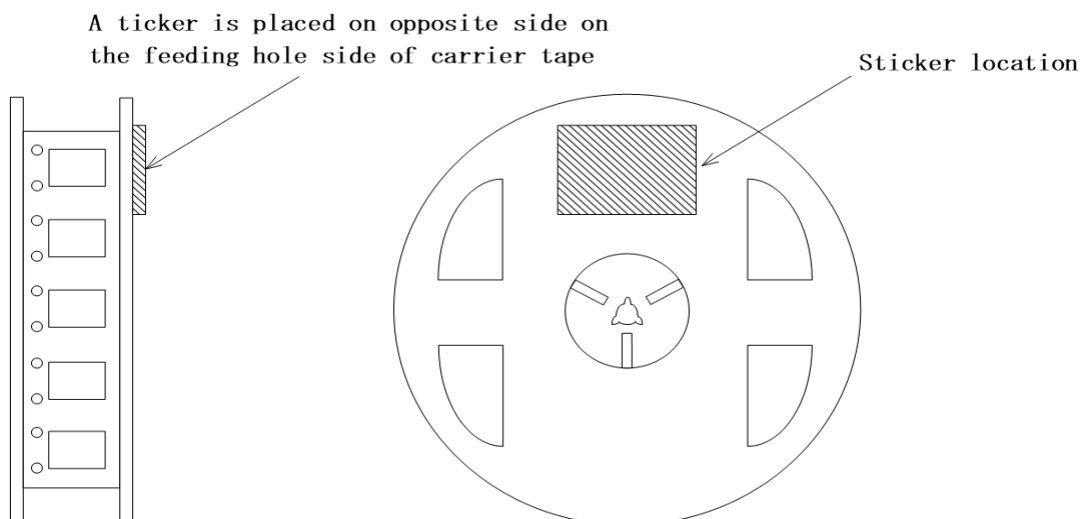
### 7. 1 Taping conditions

Taping conditions are shown below. Refer to IEC60286-3

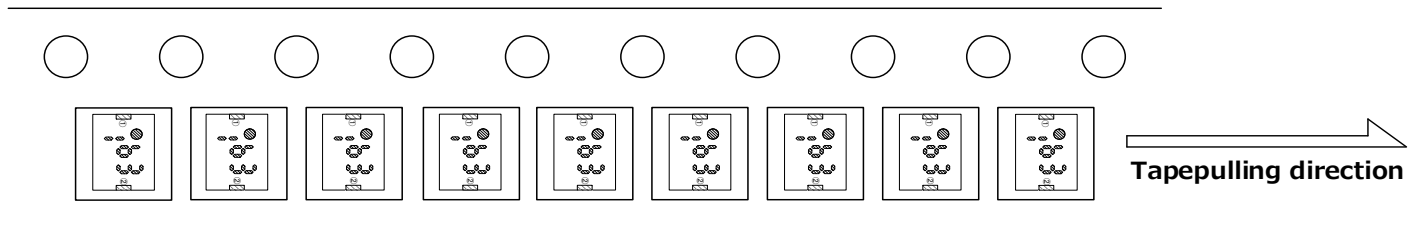
- (1) Tape must be wound clockwise with the feeding hole coming to the right hand side.
- (2) Top cover tape must not cover feeding holes of carrier tape and/or show out of carrier tape.
- (3) A blank section carrying no chips of a length of 160mm min. on ending section and 100mm min. on leading section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



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

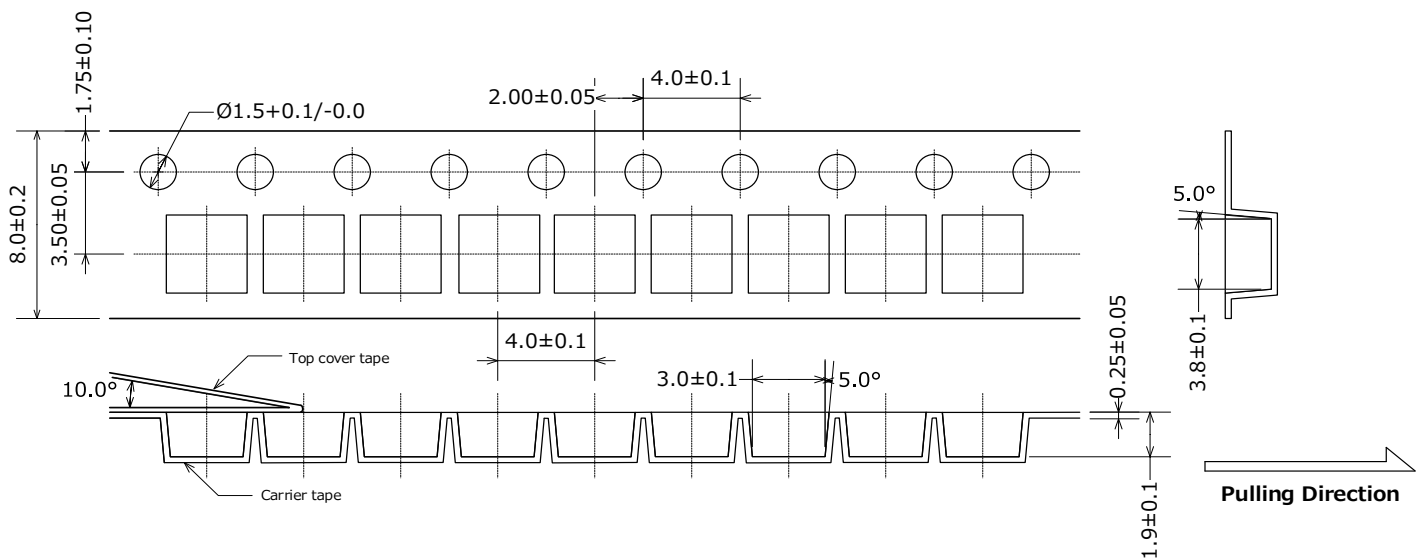


(10) A taping reel must be sealed in a plastic bag, individually.

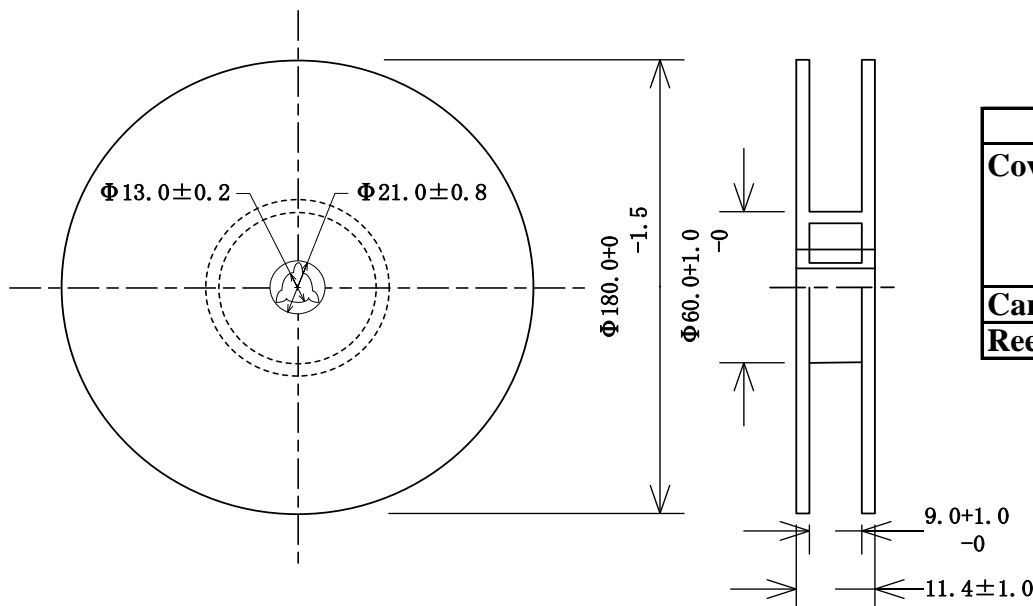
(11) Tape-packaged quantity

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