

# Product Information

Control No. : ARP-4671500-F 1

Issued on October 19, 2023

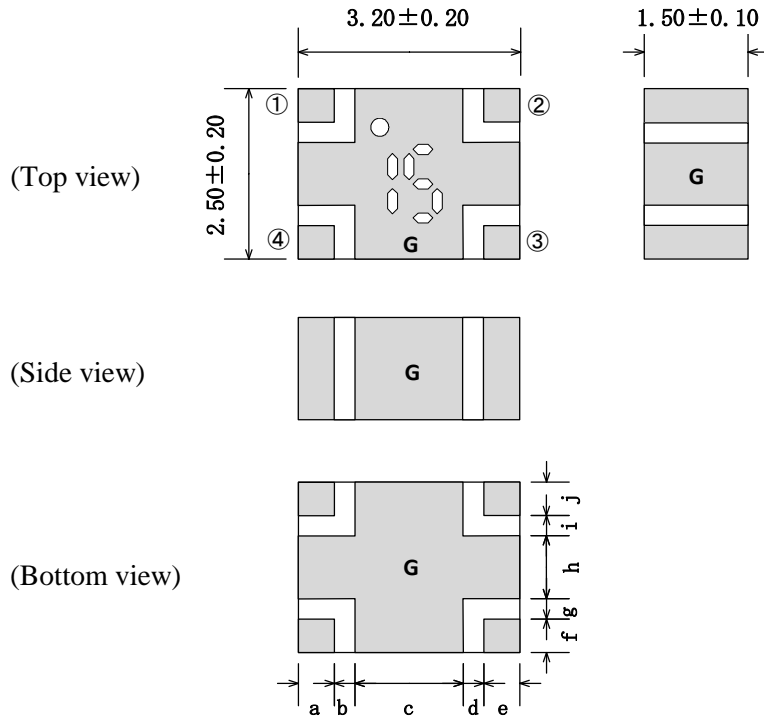
Measured data

RoHS Compliant Part

## 1. Type No.

HMD6715D-HYB4500

## 2. Dimension (Unit : mm)



Terminal	
①	IN
②	ISOLATION
③	OUT(90deg)
④	OUT(0deg)
G	GND

Terminal Dimensions	
a	0.52 +/- 0.10
b	0.30 +/- 0.10
c	1.56 +/- 0.10
d	0.30 +/- 0.10
e	0.52 +/- 0.10
f	0.49 +/- 0.10
g	0.30 +/- 0.10
h	0.92 +/- 0.10
i	0.30 +/- 0.10
j	0.49 +/- 0.10

## 3. Electrical characteristics

Parameter		Band1	Band2	Band3	Unit
Pass band frequency	Specification	3200-4000	4000-5000	5000-5500	MHz
Nominal impedance	Specification	50	50	50	ohm
Input port VSWR	Specification	1.22 Max.	1.22 Max.	1.22 Max.	-
	Typical	1.13	1.08	1.06	
Isolation	Specification	20.0 Min.	20.0 Min.	20.0 Min.	dB
	Typical	23.1	28.9	27.7	
Insertion Loss at 25degC.	Specification	0.25 Max.	0.25 Max.	0.32 Max.	dB
	Typical	0.19	0.20	0.23	
Amplitude balance	Specification	0.7 Max.	0.7 Max.	0.7 Max.	dB
	Typical	0.39	0.47	0.41	
Phase balance	Specification	90 +/- 5	90 +/- 5	90 +/- 5	deg
	Typical	89.0	89.2	89.5	

## 4. Note

- |                                 |  |
|---------------------------------|--|
| 4.1 Operating Temperature Range | : -55 to +105 degC.                      |
| 4.2 Storage Temperature Range   | : -20 to +35 degC. (In a Taping Package) |
| 4.3 Max Input Power             | : 50W Avg/CW                             |
| 4.4 Standard Reel Quantity      | : 2,000 pcs (per reel, per bag)          |

Approved by	Confirmed by	Raised by
Y. Imai	S.Suzuki	H.Isono

SOSHIN ELECTRIC CO., LTD

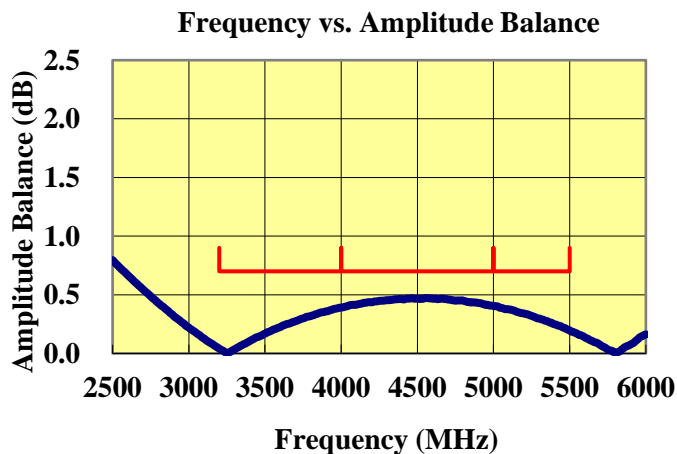
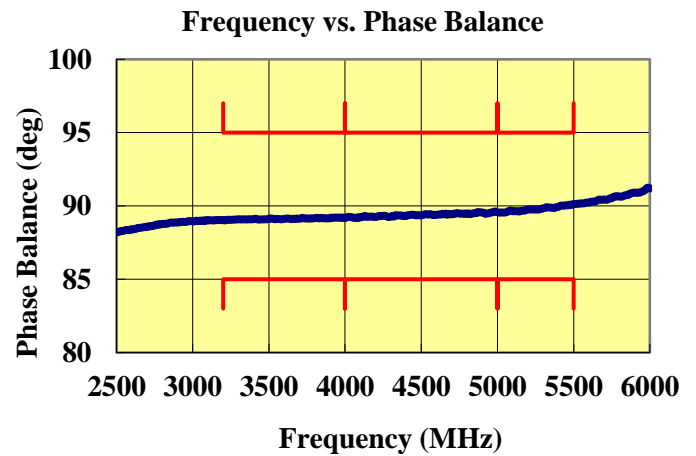
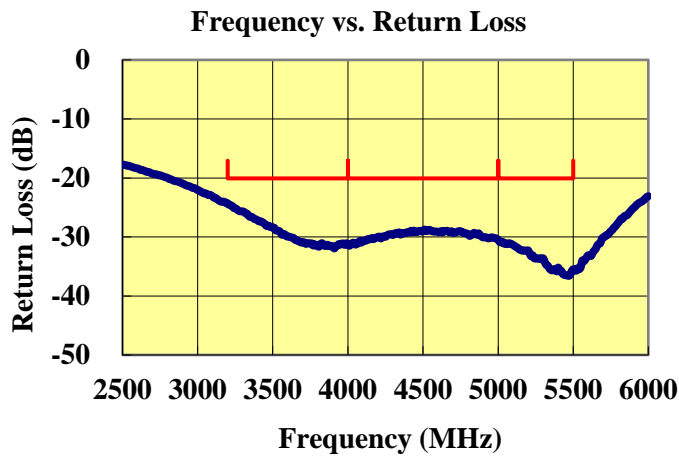
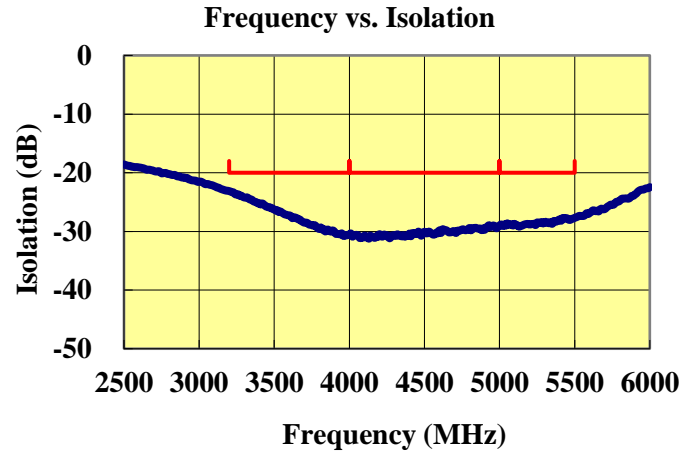
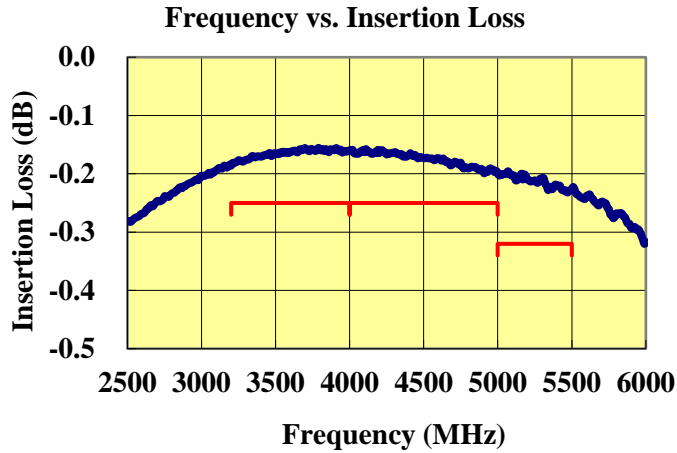
# Product Information

Control No. : ARP-4671500-F2

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## 5.Representative characteristics

Measured data



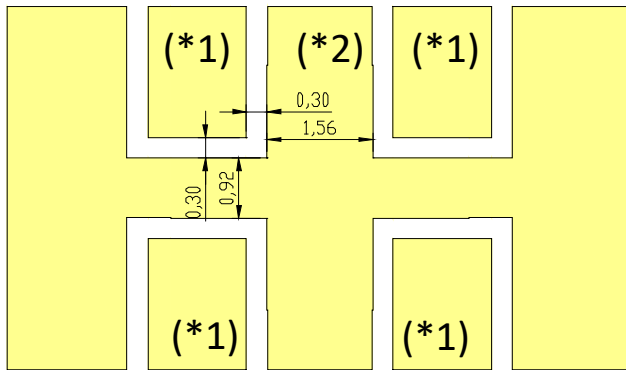
# Product Information

Control No. : ARP-4671500-F3

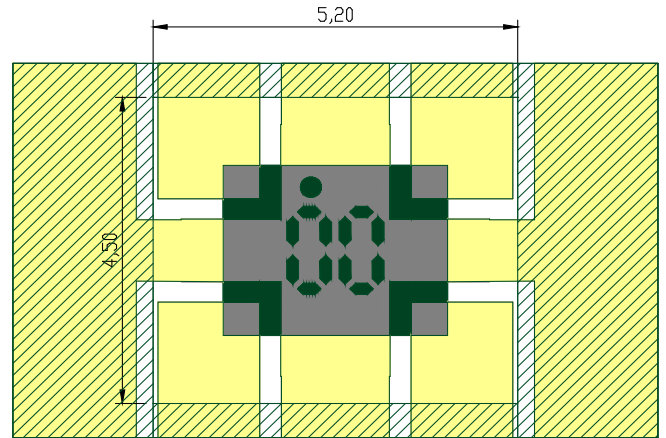
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## 6.Recommended Land Pattern (Unit:mm)

### \*Land Pattern



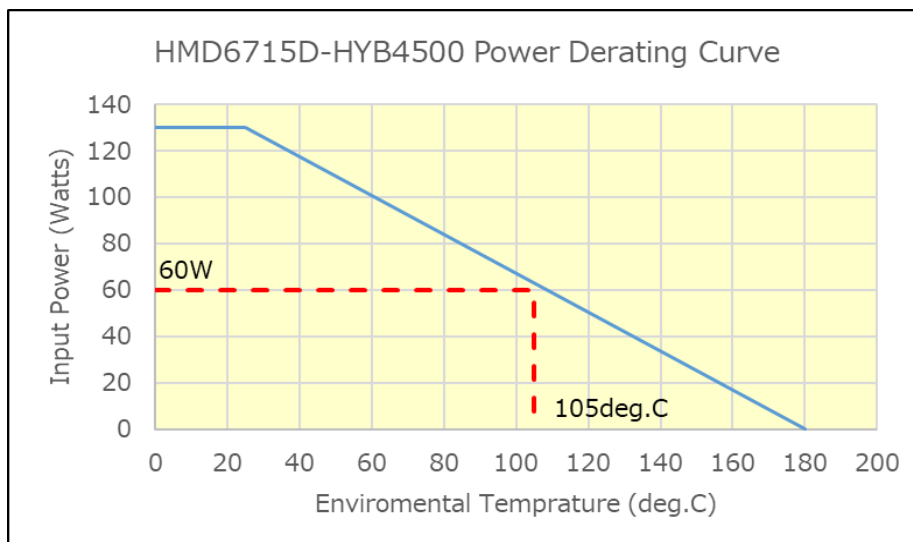
### \*Resist Pattern



\*1 50 ohm impedance Line

\*2 Ground Plane

## 7.Power Derating Curve

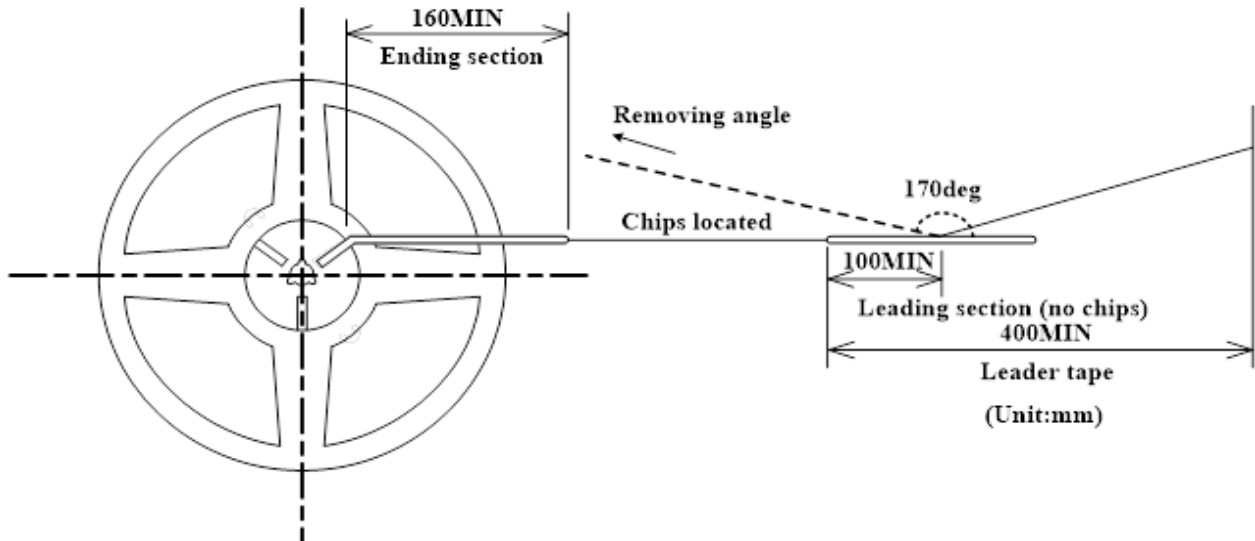


## 7. Packing method

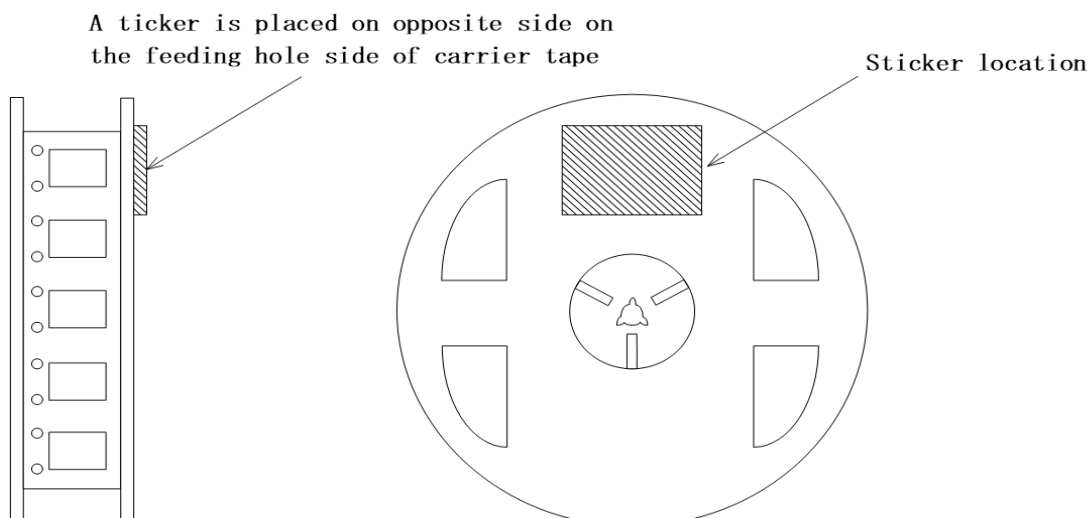
### 7. 1 Taping conditions

Taping conditions are shown below. Refer to IEC60286-3

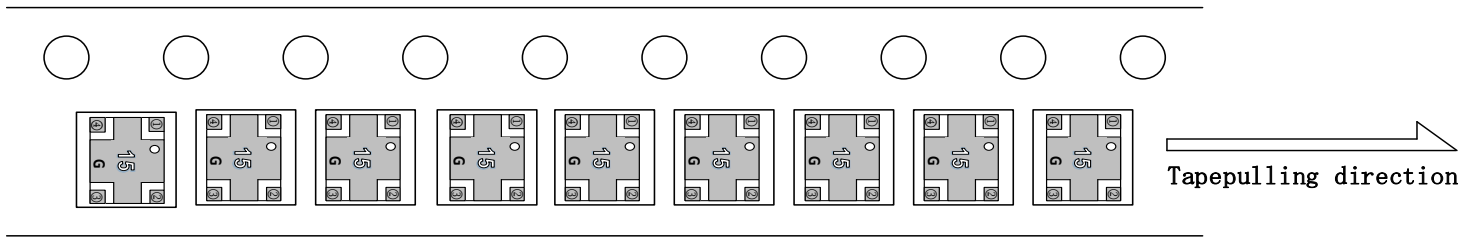
- (1) Tape must be wound clockwise with the feeding hole coming to the right hand side.
- (2) Top cover tape must not cover feeding holes of carrier tape and/or show out of carrier tape.
- (3) A blank section carrying no chips of a length of 160mm min. on ending section and 100mm min. on leading section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

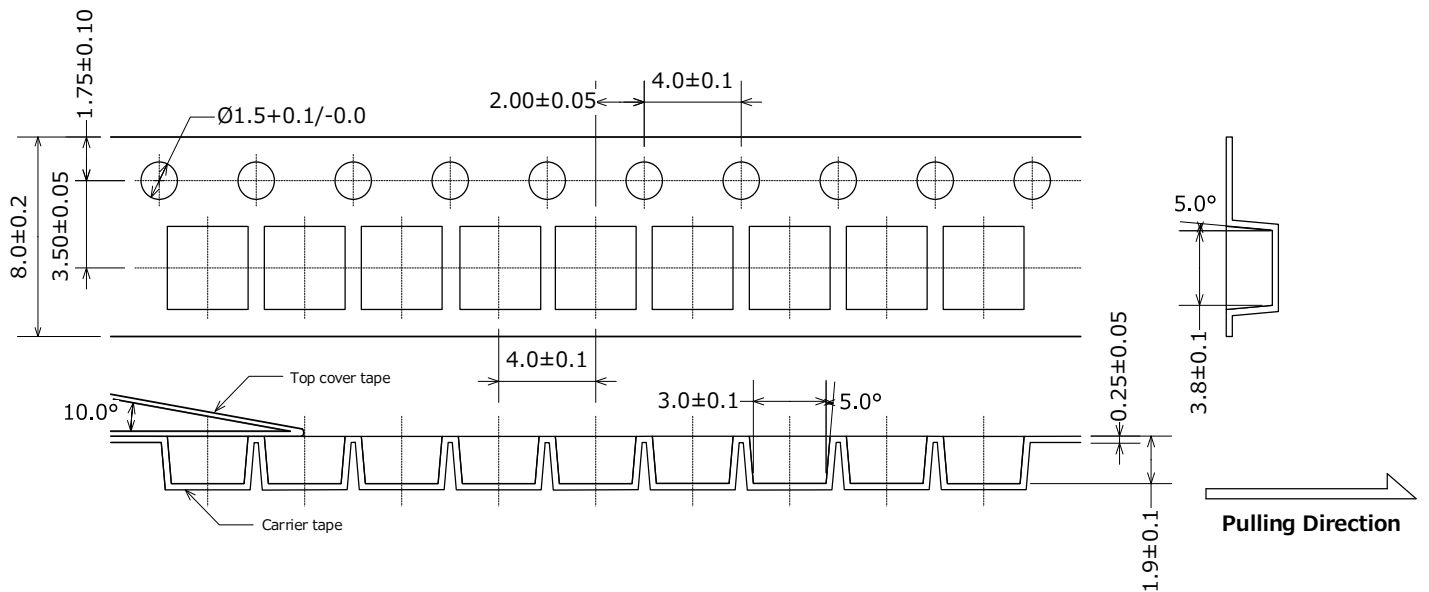


(10) A taping reel must be sealed in a plastic bag, individually.

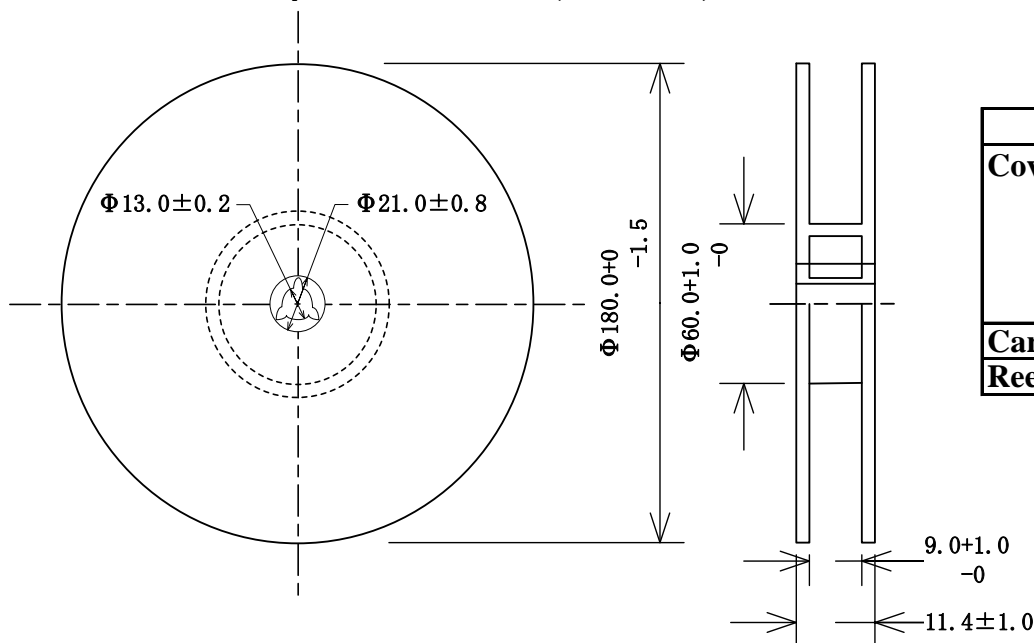
(11) Tape-packaged quantity

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)



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