

Product Information

Control No. : ASP-300070-A 1

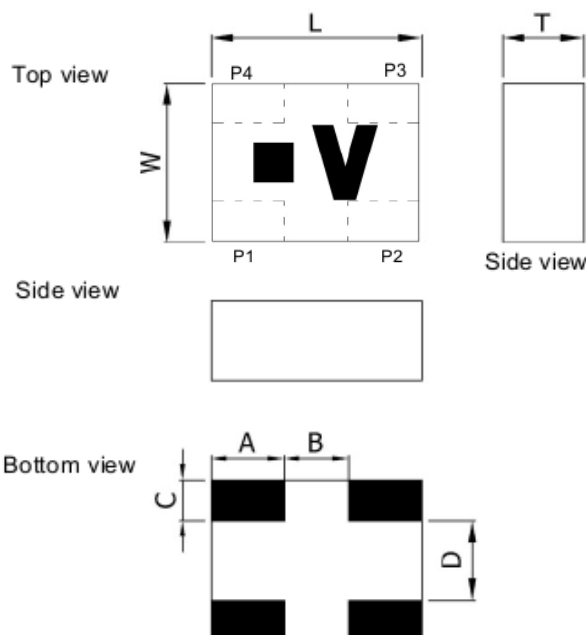
Issued on May 16 , 2025

1. Type No.

PMDR30007I0

2. Dimension (Unit : mm)

RoHS Compliant Part



Terminal	
P1	Coupling
P2	Terminate
P3	Output
P4	Input

Terminal Dimensions	
L	0.65 ± 0.10
W	0.50 ± 0.10
T	0.35 ± 0.05
A	0.225 ± 0.100
B	0.20 ± 0.05
C	0.125 ± 0.050
D	0.25 ± 0.05

3. Electrical characteristics

Parameter		Band1	Band2				Unit	Remark
Pass band frequency	Specification	2400-2500	4900-5950				MHz	
Nominal impedance	Specification	50	50				ohm	
Insertion Loss (at +25℃)	Specification	0.20 Max.	0.50 Max.				dB	
	Typical	0.07	0.34					
Insertion Loss (at -40 ~ +105℃)	Specification	0.25 Max.	0.55 Max.				dB	
	Typical	-	-					
Coupling Factor	Frequency	2400-2500	5150-5350	5500-5690	5700-5805	5825-5950	dB	
	Specification	19.1 +/- 0.7	12.8 +/- 0.7	12.4 +/- 0.7	12.2 +/- 1.0	12.0 +/- 1.0		
	Typical	19.2-19.5	12.4-12.8	11.8-12.1	11.6-11.8	11.4-11.6		
Directivity	Specification	15 Min.	15 Min.				dB	
	Typical	18.5	16.5					
Return Loss (Input Port)	Specification	15 Min.	15 Min.				dB	
	Typical	-	-					
Return Loss (Coupling Port)	Specification	15 Min.	15 Min.				dB	
	Typical	-	-					
Power Capacity	Specification	2 Max.	2 Max.				W	

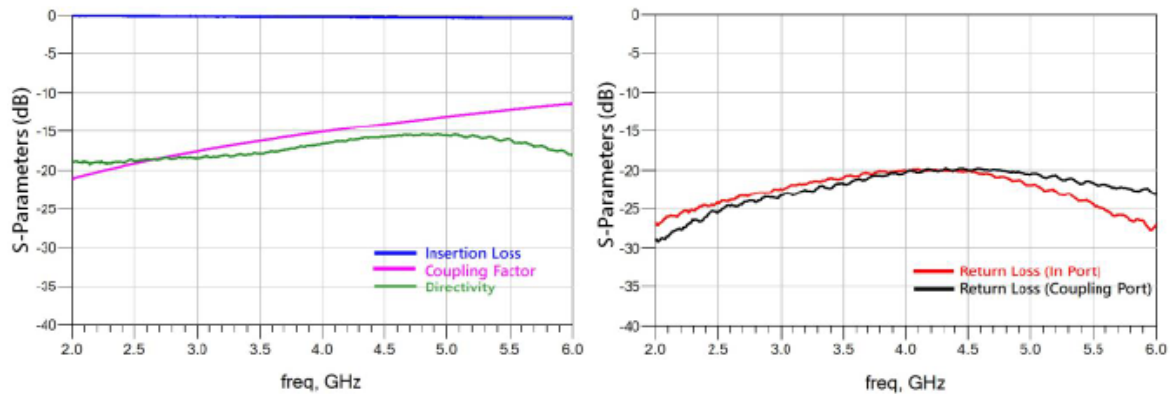
4. Note

- 4.1 Operating Temperature Range : -40 ~ +105°C
- 4.2 Storage Temperature Range before sold : +5 ~ +40°C
- 4.3 Standard Reel Quantity : 4,000 pcs per reel
- 4.4 MSL : 1
- 4.5 This component is produced by OEM in PSA group.(Made in Taiwan)

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

SOSHIN ELECTRIC CO., LTD

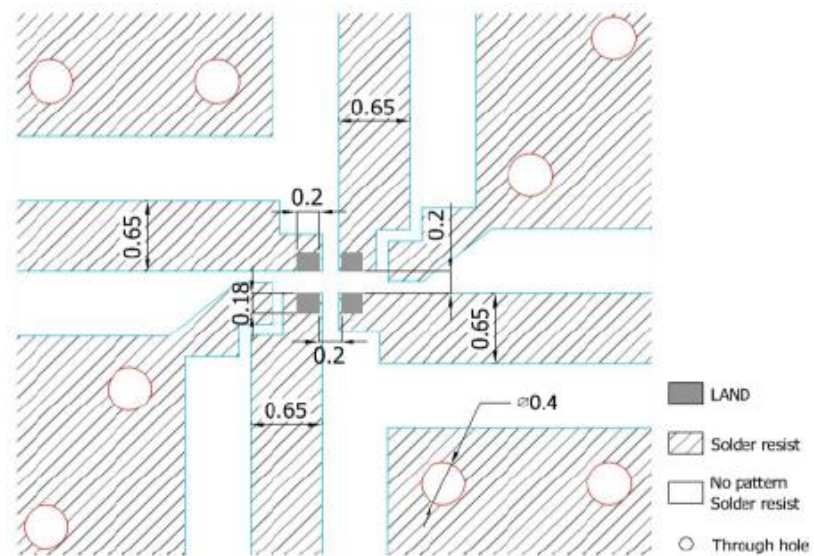
5.Representative characteristics



6.Recommendation Land Pattern

Land Pattern

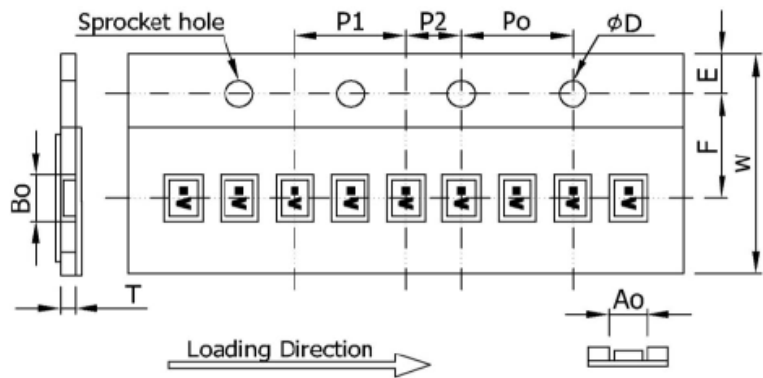
Figure



Unit: mm

Line width to be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.

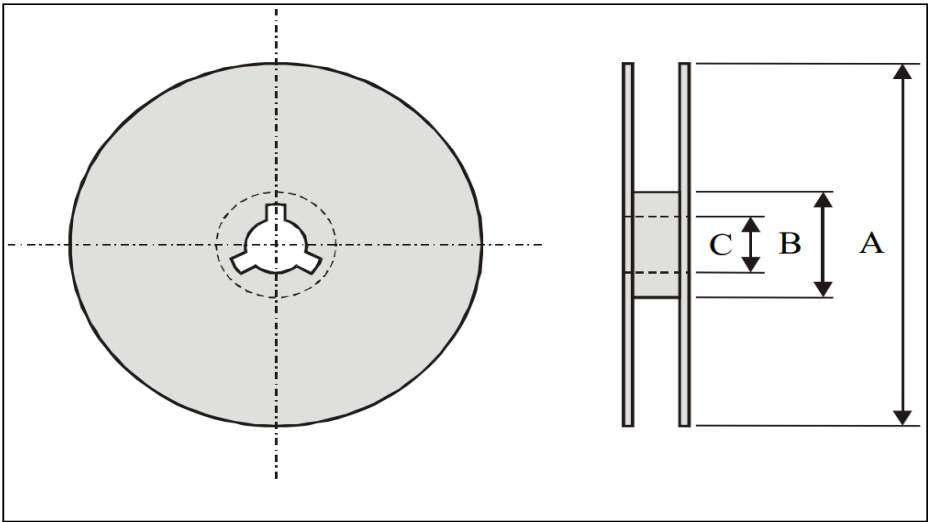
7.1 Dimensions of the carrier tape



Paper Tape specifications (unit :mm)

Index	Ao	Bo	ΦD	T	W
Dimension (mm)	0.62 ± 0.10	0.80 ± 0.10	1.55 ± 0.05	0.43 ± 0.10	8.00 ± 0.10
Index	E	F	Po	P1	P2
Dimension (mm)	1.75 ± 0.05	3.50 ± 0.05	4.00 ± 0.10	2.00 ± 0.05	2.00 ± 0.05

7.2 Carrier tape reel dimensions



Index	A	B	C
Dimension (mm)	$\Phi 178.0$	$\Phi 60.0$	$\Phi 13.0$