

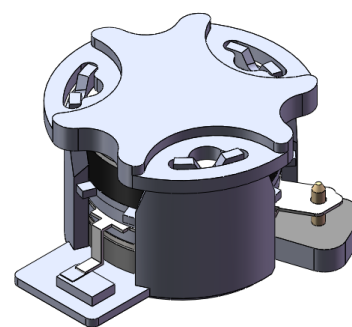


## DP2501S

### ENG PART: DP-6.2IM-8.7T10.5-CW

8.7GHz to 10.5GHz Single-Junction Surface Mount Isolator

REV.	DESCRIPTION	REVISOR	DATE	APPROVED
1	Creating datasheet	ZC.Wu	2023/4/6	Nick

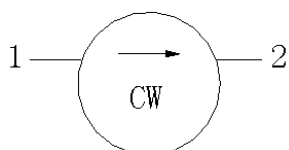


#### Applications:

- Wireless Infrastructure
- Power Amplifier

#### Features:

- Operating frequency range: 8.7GHz to 10.5GHz
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -54°C to +125°C
- Small surface-mount package delivered on T&R
- BeO free & RoHS compliant



Block Diagram



### Electrical Specifications:

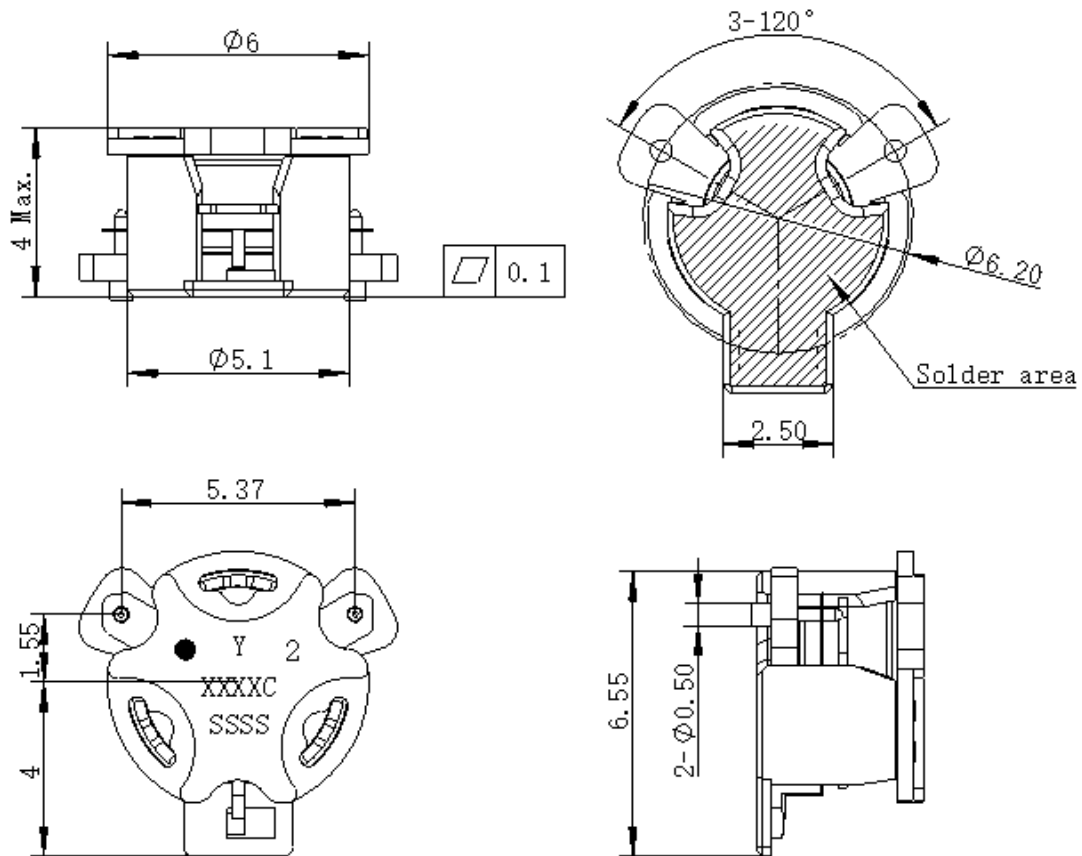
ITEM	SPECIFICATION	
Frequency	8.7~10.5	GHz
Direction	CW	
Impedance	Typ: 50	$\Omega$
Insertion Loss (Max.)	0.50@25±10°C 0.70@-40~+85°C	dB
Isolation (Min.)	20.0@25±10°C 18.0@-40~+85°C	dB
Return Loss (Min.)	19.0@25±10°C 17.7@-40~+85°C	dB
3rd IMD (Max.)	-	dBc
Extend frequency	-	MHz
Group delay	-	ns
2nd harmonic suppression	-	dBc
3rd harmonic suppression	-	dBc
Power FWD/REV/PEAK	1/1/-	W
Termination/Attenuator	2/-	W/dB
Input Impedance ,real	-	$\Omega$
Input Impedance ,imaginary	-	$\Omega$

Notes:

1. Exposure to maximum rating conditions for extended periods may reduce device reliability. There is no damage to device with only one parameter set at the limit and all other parameters set at or below their nominal value. Exceeding any of the limits listed here may result in permanent damage to the device.
2. Performance is guaranteed under the conditions listed in this table and over the operating temperature range.
3. Performance will not degrade by > 10% (Insertion loss > 20%) with an operating temperature of up to 130 °C.



Mechanical Specifications:



Unit: Millimeters

Notes:

1. The housing and pins are silver-plated.
2. Tolerance  $\pm 0.2$ mm unless otherwise specified.
3. Co-planarity Specification: 0.1mm maximum.
4. The "Y" show on the label represents the producing year, when printing the producing year, A stands for 2022, B for 2023, C for 2024, and so on (reference DP's file WDPT PD-003).
5. The **XXXXC** on the label represents the last five digits of the Part Number
6. The **SSSS** on the label represents the serial number
7. The black dot on the label represents the input port