

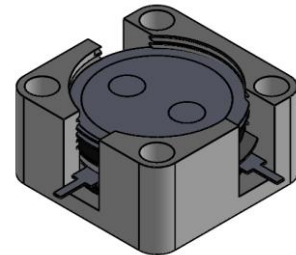


DP2165C

ENG PART:DP-12.7X12.7CD-2300T2495-CW

2300MHz to 2495MHz Single-Junction Drop-in Circulator

REV.	DESCRIPTION	REVISOR	DATE	APPROVED
1	Creating datasheet	ZC.Wu	2022/9/2	Nick

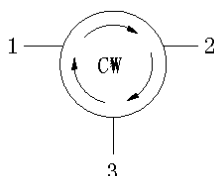


Applications:

- Wireless Infrastructure
- Power Amplifier

Features:

- Operating frequency range: 2300MHz to 2495MHz
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +125°C
- Small surface-mount package delivered on T&R
- BeOfree&RoHS compliant



Block Diagram



Electrical Specifications:

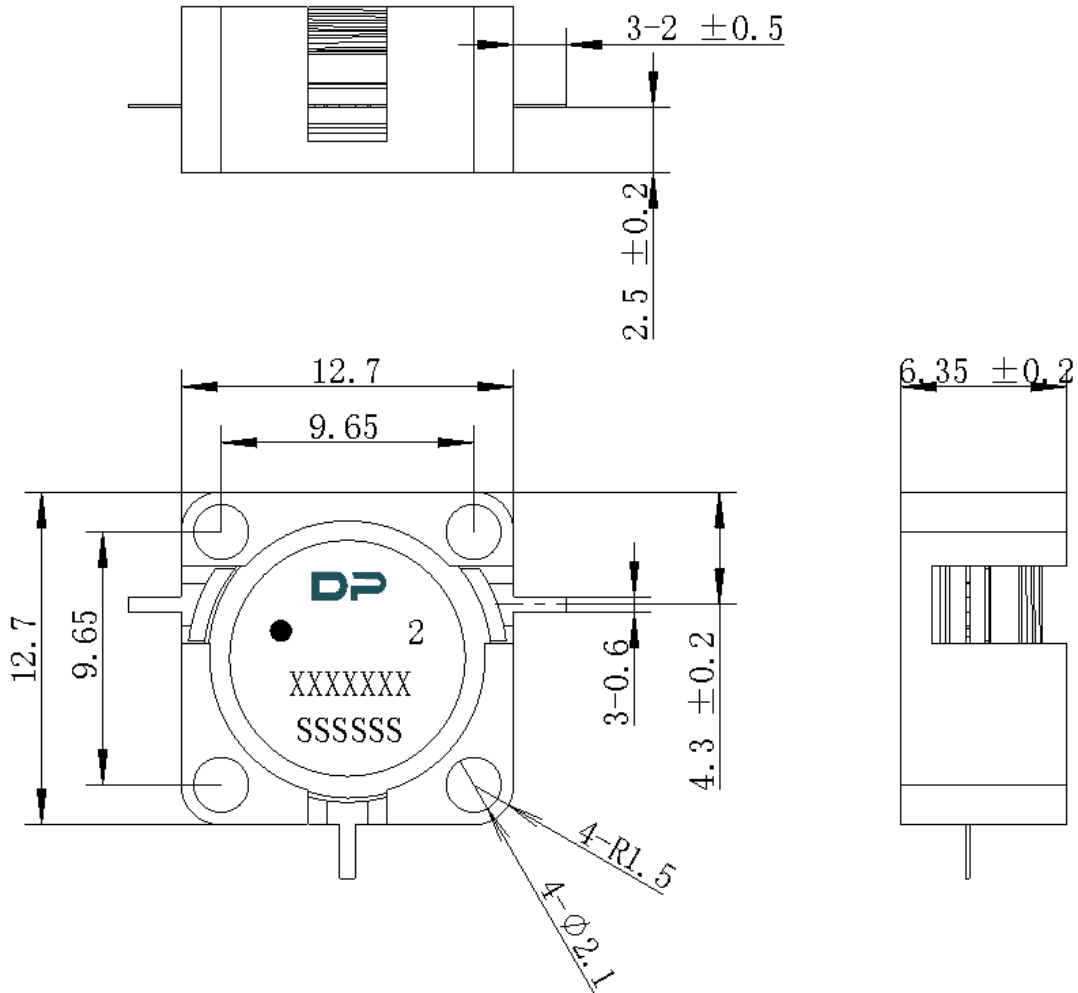
ITEM	SPECIFICATION	
Frequency	2300~2495	MHz
Direction	CW	
Impedance	Typ: 50	Ω
Insertion Loss (Max.)	0.35	dB
Isolation (Min.)	20	dB
Return Loss (Min.)	20	dB
3rd IMD (Max.)	-	dBc
2nd harmonic suppression	-	dBc
3rd harmonic suppression	-	dBc
Power FWD/REV/PEAK	100 (The whole machine validation) /-/-	W

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 is nickel plated and the circuit is silver-plated.
2. Tolerance ± 0.2 mm unless otherwise specified.
3. Co-planarity Specification: 0.1mm maximum.
4. The XXXXXXX on the label represents the part number
6. The SSSSSS on the label represents the serial number
7. The black dot on the label represents the input port