

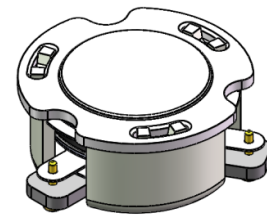


## DP2905C

### ENG PART:DP-15.5CM-3400T3800-CW

3400MHz to 3800MHz Single-Junction Surface Mount Circulator

REV.	DESCRIPTION	REVISOR	DATE	APPROVED
A	Creating datasheet	ZZ.Zhu	2023/12/15	Nick

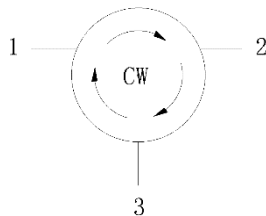


#### Applications:

- Wireless Infrastructure
- Power Amplifier

#### Features:

- Operating frequency range: 3400MHz to 3800MHz
- Operating temperature range: -40°C to +120°C
- Storage temperature range: -65°C to +150°C
- Small surface-mount package delivered on T&R
- BeO free & RoHS compliant



Block Diagram



### Electrical Specifications:

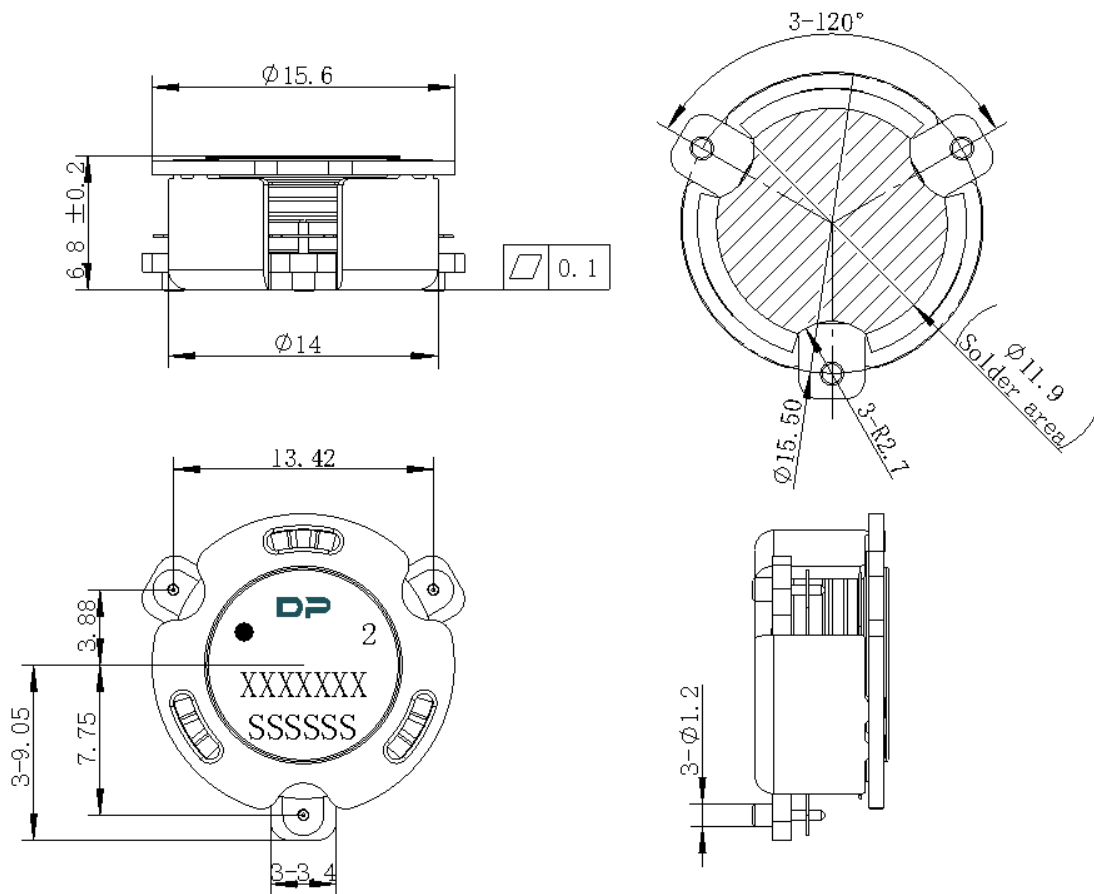
ITEM	SPECIFICATION	
Frequency	3400~3800	MHz
Extend frequency	3200-4000	MHz
Direction	CW	
Impedance	Typ: 50	$\Omega$
Insertion Loss (Max.)	Typ: 0.28@25°C 0.30@-40~+120°C	dB
Isolation (Min.)	Typ: 25 22 14@3200MHz~4000 MHz	dB
Return Loss (Min.)	22	dB
3rd IMD (Max.)	-70@2x40W CW tones, 5MHz spacing	dBc
Group delay	2.0	ns
Ripple of group delay in extend frequency	-	ns
2nd harmonicsuppression	10	dBc
3rd harmonicsuppression	5	dBc
Power FWD/REV/PEAK	100/-/1000	W
Termination/Attenuator	-	W/dB
Input Impedance ,real	-	$\Omega$
Input Impedance ,imaginary	-	$\Omega$
Output Impedance ,real	-	$\Omega$
Output Impedance ,imaginary	-	$\Omega$
Resonance point of out-off-band	-	

#### 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. Part Number, Lot Code, and Port Designation are printed on the top side of device.
5. 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



Packaging Style:

ITEM	W	A0	B0	K0	D	E	F	F2	P	P0	P2	T
DIM	32	17.8	Φ15.6	7.2	Φ1.5	1.75	14.2	28.5	24	4	2	0.5
TOL	±0.3	±0.2	±0.2	±0.2	+0.1	±0.1	±0.15	±0.1	±0.1	±0.1	±0.1	±0.05

