GuangdongDapuTelecomTechnologyCo.,Ltd

http://www.dptel.com

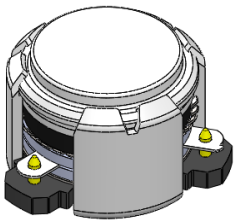
Bldg13-16,.N.Ind.Zone,SSLIndustry Park,DongguanCity,Guangdong Province,PRChina
TEL:0086-0769-88010888
FAX:0086-0769-81800098

DP0422C

ENG PART:DP-10.2CM-2320T2370-CCW

2320MHz to 2370MHz Single-Junction Surface Mount Circulator

REV.	DESCRIPTION	REVISOR	DATE	APPROVED
A	Creating	Jie.Jiang	2021/03/05	Nick
B	Update the Impedance	ZC.Wu	2021/10/15	Nick

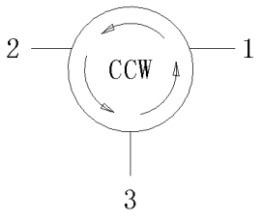


Applications:

- Wireless Infrastructure
- Power Amplifier

Features:

- Operating frequency range: 2320MHz to 2370MHz
- Operating temperature range: -40℃ to +110℃
- Storage temperature range: -55℃ to +150℃
- Small surface-mount package delivered on T&R
- BeOfree&RoHS compliant



Block Diagram

GuangdongDapuTelecomTechnologyCo.,Ltd

http://www.dptel.com

Bldg13-16,.N.Ind.Zone,SSLIndustry Park,DongguanCity,Guangdong Province,PRChina
TEL:0086-0769-88010888
FAX:0086-0769-81800098

Electrical Specifications:

ITEM	SPECIFICATION	
Frequency	2320~2370	MHz
Direction	CCW	
Impedance	Typ: 50	Ω
Insertion Loss （Max.)	0.25@25°C 0.33@-40~+110°C	dB
Isolation (Min.)	20@2320~2370MHz 14@2120~2570MHz	dB
Return Loss (Min.)	22	dB
3rd IMD (Max.)	60@2x5W CW tones，5MHz spacing	dBc
Group delay	2	ns
2nd harmonic	10	dBc
3rd harmonic	5	dBc
Power FWD/REV/PEAK	20/20/160	W
Termination/Attenuator	/	W/dB
Out Band Resonance	Resonance point away 2120MHz-2570MHz	
Input Impedance ,real	48 Min@2320MHz 55Max@2320MHz 47Min@2350MHz 53 Max@2350MHz 46Min@2370MHz 53Max@2370MHz	Ω
Input Impedance ,imaginary	-4j Min@2320MHz 4j Max@2320MHz -4j Min@2350MHz 4 Max@2350MHz -4j Min@2370MHz 6j Max@2370MHz	Ω

Notes:

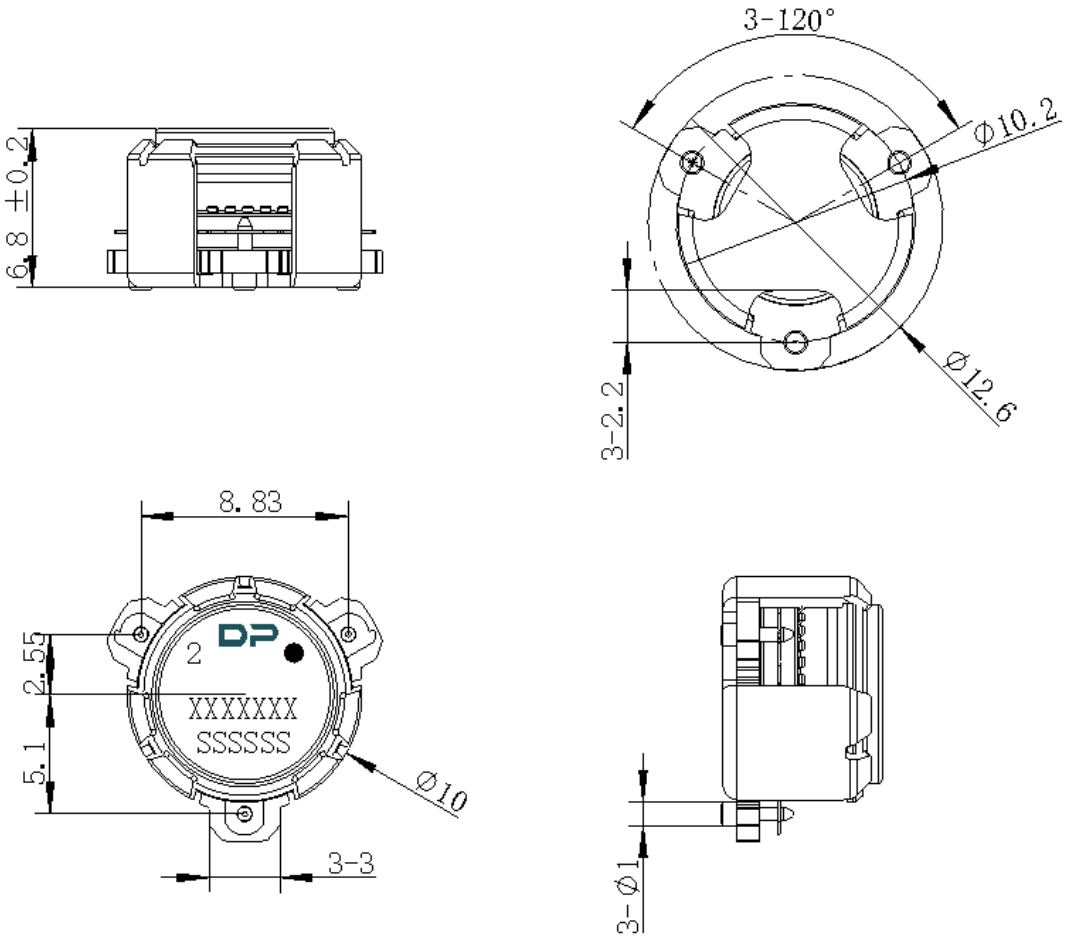
1. Exposure to maximum rating conditions for extended periods may reduce device reliability. There is no damage to device with only one parameter set at the limit and all other parameters set at or below their nominal value. Exceeding any of the limits listed here may result in permanent damage to the 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.

GuangdongDapuTelecomTechnologyCo.,Ltd

http://www.dptel.com

Bldg13-16,.N.Ind.Zone,SSLIndustry Park,DongguanCity,Guangdong Province,PRChina
TEL:0086-0769-88010888
FAX:0086-0769-81800098

Mechanical Specifications:



Unit: Millimeters

Notes:

1. The housing and pins are silver-plated.
2. Tolerance ±0.2mmunless otherwise specified.
3. Co-planarity Specification: 0.1mm maximum.
4. PartNumber, 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 dots represent the input ports.

GuangdongDapuTelecomTechnologyCo.,Ltd

http://www.dptel.com

Bldg13-16,.N.Ind.Zone,SSLIndustry Park,DongguanCity,Guangdong Province,PRChina
TEL:0086-0769-88010888
FAX:0086-0769-81800098

PackagingStyle：

ITEM	W	A0	B0	C0	K0	D	E	F	F2	P	P0	P2	T
DIM	32	Φ10.4	12.5	4	7.0	Φ1.5	1.75	14.2	28.5	24	4	2	0.5
TOLE	±0.3	±0.2	±0.2	±0.2	±0.2	+0.1	±0.1	±0.15	±0.1	±0.1	±0.1	±0.1	±0.05