GuangdongDapuTelecomTechnologyCo.,Ltd

http://www.dptel.com

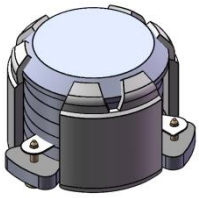
Bldg13-16,.N.Ind.Zone,SSLIndustry Park,DongguanCity,Guangdong Province,PRChina
TEL:0086-0769-88010888
FAX:0086-0769-81800098

DP0362C

ENG PART:DP-7.0CM-2110T2170-CCW

2110MHz to 2170MHz Single-Junction Surface Mount Circulator

REV.	DESCRIPTION	REVISOR	DATE	APPROVED
A		Jie.Jiang	2020/11/23	Nick
B	Chang Isolation and return loss operating temperature range	Jie.Jiang	2020/12/15	Nick
C	Modify the PIN diameter from 0.7 to 1mm	Jie.Jiang	2021/1/8	Nick
D	Update the label	ZZ.Zhu	2023/7/31	Nick

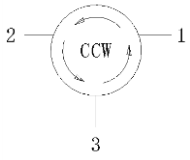


Applications:

- Wireless Infrastructure
- Power Amplifier

Features:

- Operating frequency range: 2110MHz to 2170MHz
- Operating temperature range: -40℃ to +105℃
- Storage temperature range: -55℃ to +150℃
- Small surface-mount package delivered on T&R
- BeOfree&RoHS compliant



Block Diagram

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Electrical Specifications:

ITEM	SPECIFICATION	
Frequency	2110~2170	MHz
Direction	CCW	
Impedance	Typ: 50	Ω
Insertion Loss （Max.)	0.30@25±10℃ 0.45@-40~+105℃	dB
Isolation (Min.)	21@25±10℃ 18@-40~+105℃	dB
Return Loss (Min.)	21@25±10℃ 18@-40~+105℃	dB
3rd IMD (Max.)	-60@2x2.5W CW tones，1MHz spacing@25±10℃	dBc
3rd IMD (Max.)	-50@2x2.5W CW tones，1MHz spacing@-40~+105℃	dBc
Power FWD/REV/PEAK	15/15/100	W
Termination/Attenuator	/	W/dB

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.

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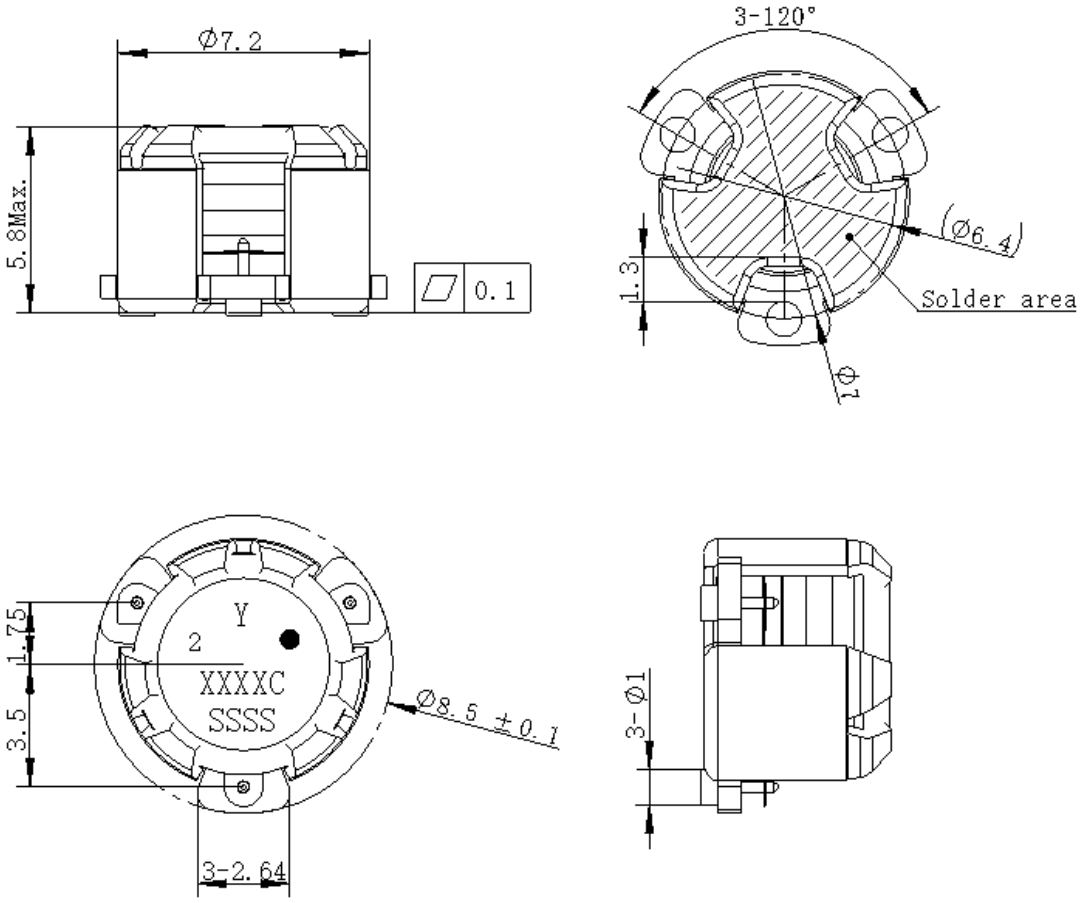
Mechanical Specifications:



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. The "Y"show on the label represents the producting year, when printing the producting 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

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PackagingStyle：

ITEM	W	A0	B0	C0	K0	D	E	F	F2	P	P0	P2	T
DIM	24	Φ7.4	9.2	2.7	6.0	Φ1.5	1.75	11.5	-	20	4	2	0.5
TOLE	±0.2	±0.2	±0.2	±0.2	±0.2	+0.1	±0.1	±0.15	±0.1	±0.1	±0.1	±0.1	±0.05