GuangdongDapuTelecomTechnologyCo.,Ltd

http://www.dptel.com

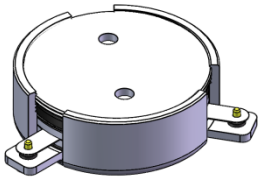
Bldg13-16,.N.Ind.Zone,SSLIndustry Park,DongguanCity,Guangdong Province,PRChina
TEL:0086-0769-88010888
FAX:0086-0769-81800098

DP2136C

ENG PART:DP-28.4CM-2620T2690-CCW

2620MHz to 2690MHz Single-Junction Surface Mount Circulator

REV.	DESCRIPTION	REVISOR	DATE	APPROVED
1	Creating datasheet	ZC.Wu	2022/8/8	Nick

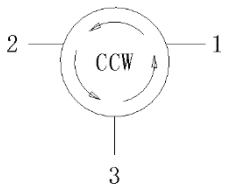


Applications:

- Wireless Infrastructure
- Power Amplifier

Features:

- Operating frequency range: 2620MHz to 2690MHz
- Operating temperature range: -40℃ to +120℃
- Storage temperature range: -65℃ to +150℃
- Small surface-mount package delivered on T&R
- BeOfree&RoHS compliant



Block Diagram

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Electrical Specifications:

ITEM	SPECIFICATION	
Frequency	2620~2690	MHz
Direction	CCW	
Impedance	Typ: 50	Ω
Insertion Loss (Max.)	0.15@-40~+120℃ 0.1@25±5℃	dB
Isolation (Min.)	21	dB
Return Loss (Input.)Max	25	dB
3rd IMD (Max.)	-60@2x100W CW Tones spacing 1MHz	dBc
Group delay	2	ns
2nd harmonicsuppression	10	dBc
3rd harmonicsuppression	5	dBc
Extend Frequency	/	MHz
Isolation of extend frequency	/	dB
Power FWD/REV/PEAK	200/-/1600	W
Resonance point of out off band	/	W/dB
Input Impedance ,real	46~52(Typ.49) @2620 MHz 47~53(Typ.50)@2655 MHz 48~54(Typ.51)@2690MHz	Ω
Input Impedance ,imaginary	-5j ~1j(Typ.-2) @2620 MHz -3j ~+3j(Typ.0)@2655 MHz -1j~+5j(Typ.3) @2690MHz	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 the operating temperature up to 130 °C.

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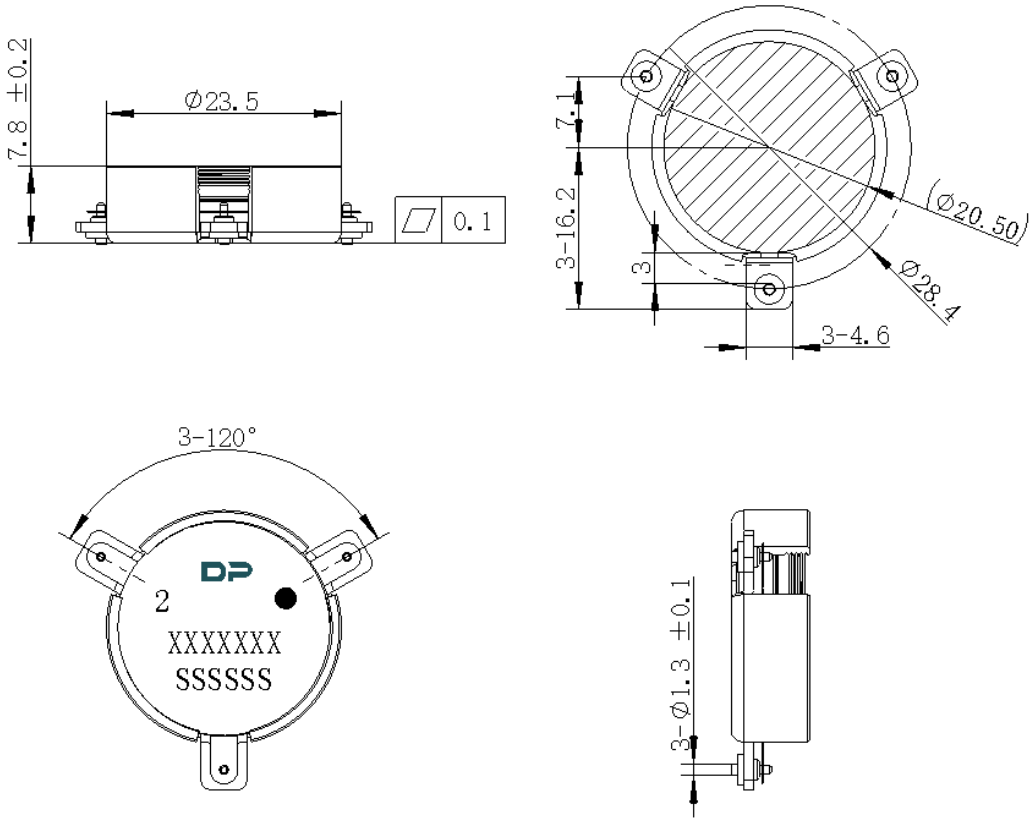
Mechanical Specifications:



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. PartNumber, Lot Code, and Port Designation are printed on the top side of device
5. The **XXXXC** on the label represents the last five digitsof the PartNumber.
6. Date code is in format **YYWW**
7. The black dot on the label represents the input port

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PackagingStyle：

ITEM	W	A0	B0	K0	D	E	F	F2	P	P0	P2	T
DIM	56	Φ24.2	–	8.4	Φ1.5	1.75	26.25	52.5	40	4	2	0.5
TOLE	±0.3	±0.2	±0.2	−0.2	+0.1	±0.1	±0.15	±0.1	±0.1	±0.1	±0.1	±0.05