

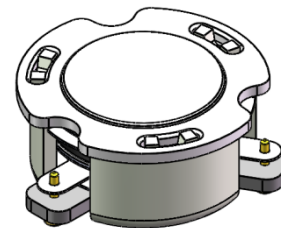


DP2903C

ENG PART:DP-15.5CM-3300T3700-CW

3300MHz to 3700MHz Single-Junction Surface Mount Circulator

REV.	DESCRIPTION	REVISOR	DATE	APPROVED
A	SAME AS REV.2	ZZ.Zhu	2024/02/07	Nick

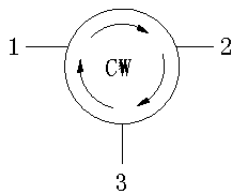


Applications:

- Wireless Infrastructure
- Power Amplifier

Features:

- Operating frequency range: 3300MHz to 3700MHz
- Operating temperature range: -40°C to +120°C
- Storage temperature range: -55°C to +150°C
- Small surface-mount package delivered on T&R
- BeO free & RoHS compliant



Block Diagram

**Electrical Specifications:**

ITEM	SPECIFICATION	
Frequency	3300~3700	MHz
Extend frequency	3150~3850	MHz
Direction	CW	
Impedance	Typ: 50	Ω
Insertion Loss (Max.)	0.27@25±5°C 0.30@-40~+120°C	dB
Isolation (Min.)	22 14@3150MHz~3850 MHz	dB
Return Loss (Min.)	22 2@3900~4100MHz	dB
3rd IMD (Max.)	-65(Typ.)@2x50w tones, spacing1MHz -60@2x50w tones, spacing1MHz	dBc
Group delay	2.0	ns
Ripple of group delay in extend frequency	2.0	ns
2nd harmonicsuppression	10@25±5°C 6@-40~+120°C	dBc
3rd harmonicsuppression	5	dBc
Power FWD/REV/PEAK	100/-/1000	W
Termination/Attenuator	-	W/dB
Input Impedance ,real	44~56 (typ.50)	Ω
Input Impedance ,imaginary	-6.5j~6.5j (typ.-3j)	Ω
Output Impedance ,real	45~55	Ω
Output Impedance ,imaginary	-6j~+6j	Ω
Resonance point of out-off-band	2950MHz~4050MHz-	

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.



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 E	±0.3	±0.2	±0.2	±0.2	+0.1	±0.1	±0.15	±0.1	±0.1	±0.1	±0.1	±0.05

