

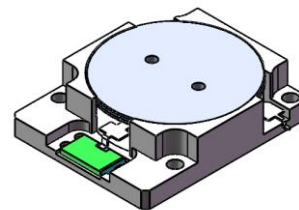


## DP2872S

### ENG PART:DP-31.8X38.8ID-700T910-CCW

700MHz to 910MHz Single-Junction Drop-in Isolator

REV.	DESCRIPTION	REVISOR	DATE	APPROVED
A	SAME AS REV.1	ZZ.Zhu	2023/10/27	Nick

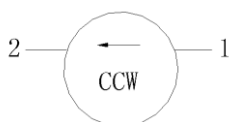


#### Applications:

- Wireless Infrastructure
- Power Amplifier

#### Features:

- Operating frequency range: 700MHz to 910MHz
- Operating temperature range: -40°C to +70°C
- Storage temperature range: -50°C to +85°C
- Small surface-mount package delivered on T&R
- BeOfree&RoHS compliant



Block Diagram



### Electrical Specifications:

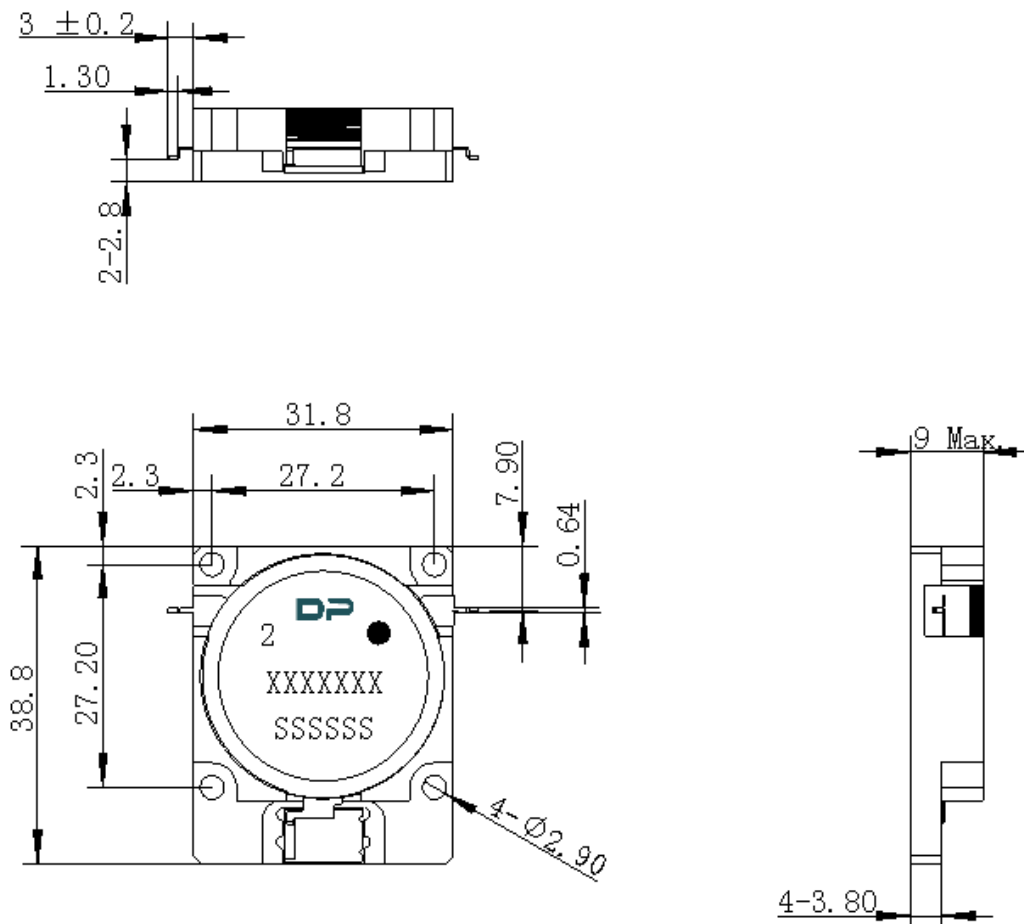
ITEM	SPECIFICATION	
Frequency	700~910	MHz
Extend frequency	-	MHz
Direction	CCW	
Impedance	Typ: 50	$\Omega$
Insertion Loss (Max.)	0.5	dB
Isolation (Min.)	15	dB
Return Loss (Min.)	15	dB
3rd IMD (Max.)		dBc
Group delay		ns
2nd harmonic suppression		dBc
3rd harmonic suppression		dBc
Power FWD/REV/PEAK	150/130/1200	W
Termination/Attenuator	150/-	W/dB
Input Impedance ,real	-	$\Omega$
Input Impedance ,imaginary	-	$\Omega$
Output Impedance ,real	-	$\Omega$
Output Impedance ,imaginary	-	$\Omega$

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% with operating temperature up to 130 °C.



### Mechanical Specifications:



Unit: Millimeters

#### Notes:

1. The housing is nickel-plated and pins is 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. Part Number format shall be XXXXXXXX
6. Serial Number format shall be SSSSSS
7. The black dot on the label represents the input port