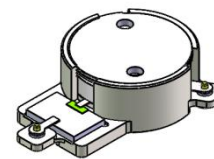




## DP0286S

### 2110MHz to 2170MHz Single-Junction Surface Mount Isolator

REV.	DESCRIPTION	REVISOR	DATE	APPROVED
A	Creating datasheet	ZC.Wu	2021/03/14	Nick
B	Add P3 Return Loss	Jie.Jiang	2022/04/28	Nick

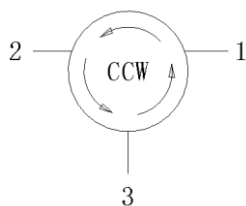


#### Applications:

- Wireless Infrastructure
- Power Amplifier

#### Features:

- Operating frequency range: 2110MHz to 2170MHz
- Operating temperature range: -40°C to +105°C
- Storage temperature range: -55°C to +125°C
- Small surface-mount package delivered on T&R
- BeOfree&RoHS compliant



Block Diagram



### Electrical Specifications:

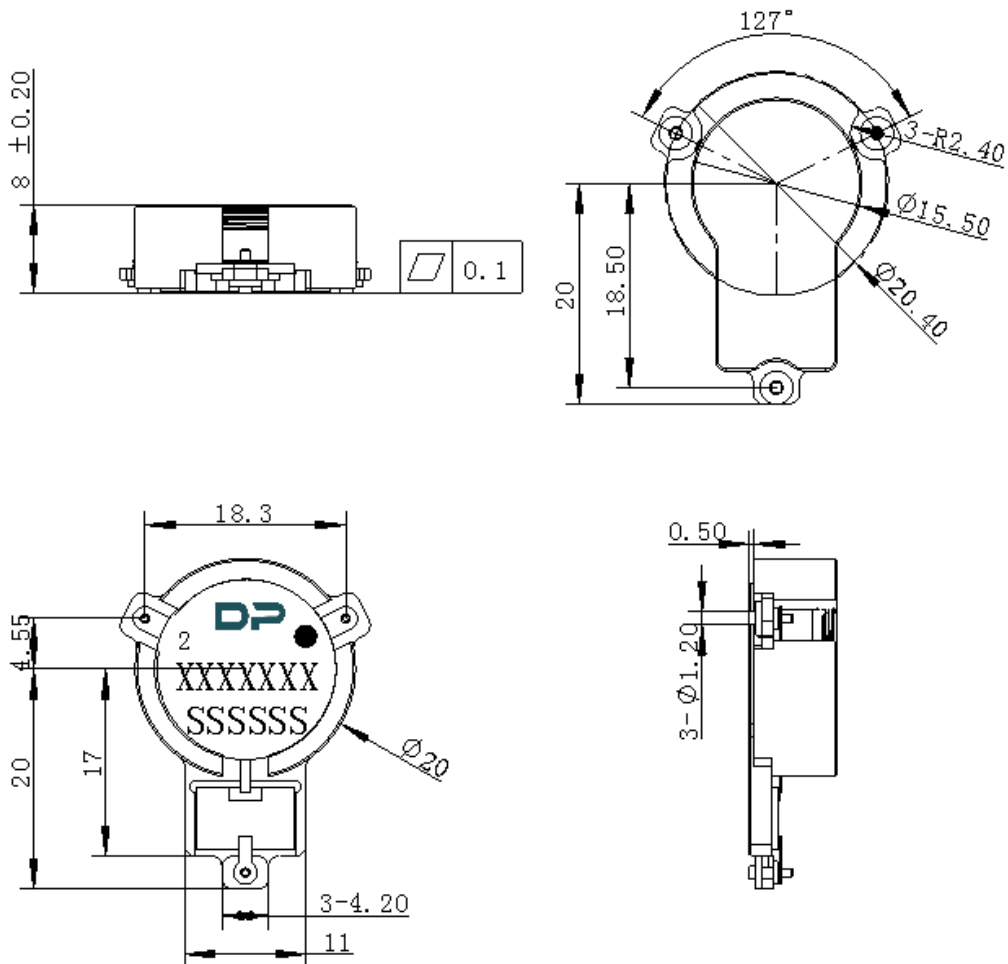
ITEM	SPECIFICATION	
Frequency	2110~2170	MHz
Direction	CCW	
Impedance	Typ: 50	$\Omega$
Insertion Loss (Max.)	0.20@25°C $\pm$ 5°C 0.25@-40°C ~+105°C	dB
Isolation (Min.)	23.0@25°C $\pm$ 5°C 21.0@-40°C ~+105°C	dB
Return Loss (Min.)	23.0@25°C $\pm$ 5°C 21.0@-40°C ~+105°C	dB
P3 Return Loss (Min.)	19.0@-40°C ~+105°C	dB
3rd IMD (Max.)	/	dBc
2nd harmonic	-	dBc
3rd harmonic	-	dBc
Power FWD/REV/PEAK	100/-/470	W
Termination/Attenuator	150/30	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.
3. Performance will not degrade by > 10% (Insertion loss > 20%) with an operating temperature of up to 130 °C.



### Mechanical Specifications:



Unit : Millimeters

#### Notes:

1. The housing and pins are silver-plated.
2. Tolerance  $\pm 0.2$  mm unless otherwise specified.
3. Co-planarity Specification: 0.1 mm maximum.
4. Part Number, Lot Code, and Port Designation are printed on the top side of device.
5. The XXXXXXXX on the label represents the part number
6. The SSSSSS on the label represents the serial number
7. The black dot on the label represents the input port