

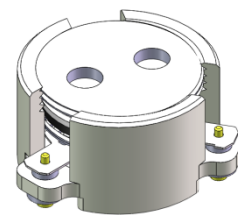


DP0378C

ENG PART:DP-20.4CM-2515T2675-CCW

2515MHz to 2675MHz Single-Junction Surface Mount Circulator

| REV. | DESCRIPTION | REVISOR | DATE | APPROVED |
|------|--------------------------------------|---------|------------|----------|
| A | Creating datasheet | ZC.Wu | 2020/12/02 | Nick |
| B | Change the height from 7 Max. to 8mm | ZC.Wu | 2020/12/02 | Nick |

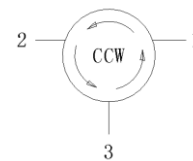


Applications:

- Wireless Infrastructure
- Power Amplifier

Features:

- Operating frequency range: 2515MHz to 2675MHz
- Operating temperature range: -40°C to +125°C
- Storage temperature range: -50°C to +135°C
- Small surface-mount package delivered on T&R
- BeOfree&RoHS compliant



Block Diagram



Electrical Specifications:

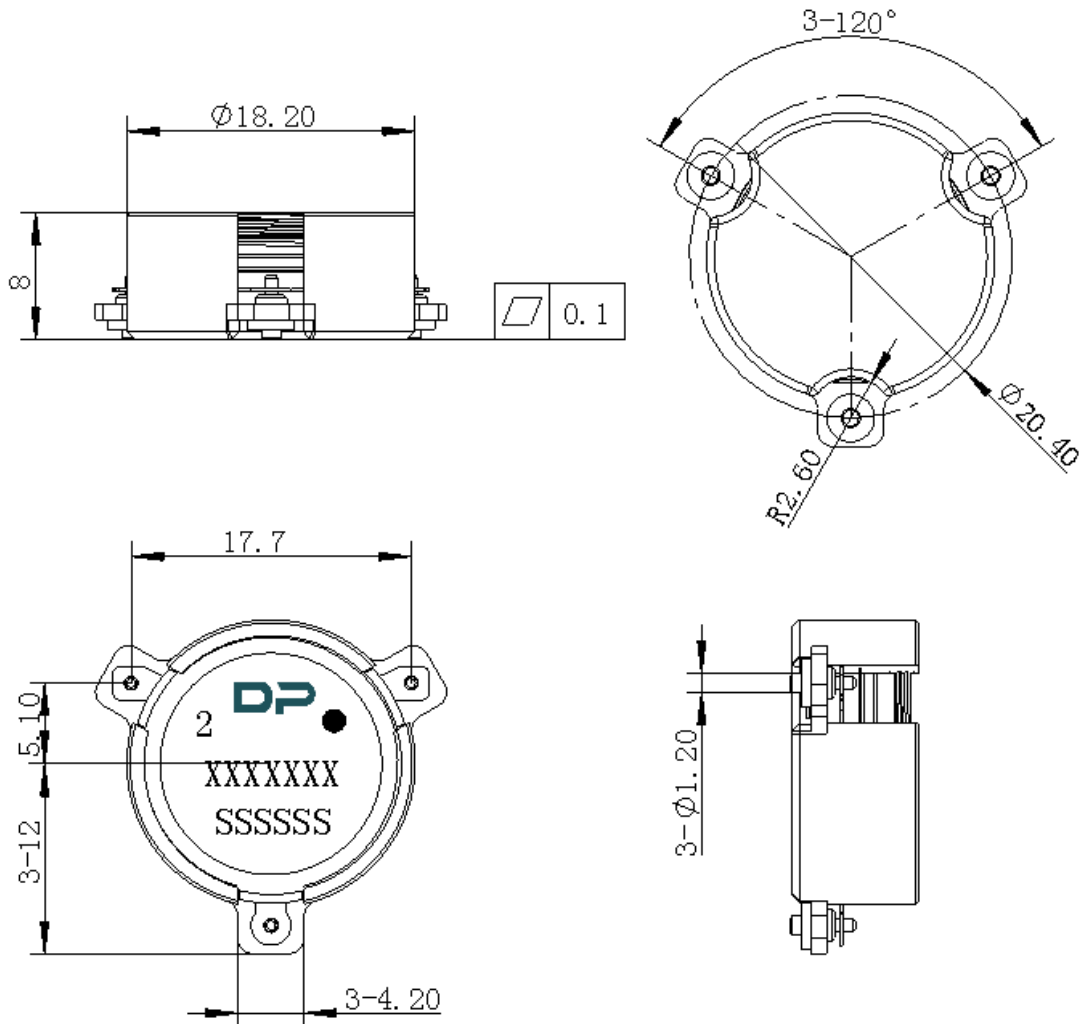
| ITEM | SPECIFICATION | |
|-------------------------------|--|----------|
| Frequency | 2515~2675 | MHz |
| Direction | CCW | |
| Impedance | Typ: 50 | Ω |
| Insertion Loss (Max.) | 0.25@25 \pm 5 $^{\circ}$ C 0.28@-40~+125 $^{\circ}$ C | dB |
| Isolation (Min.) | 23@25 \pm 5 $^{\circ}$ C 21@-40~+125 $^{\circ}$ C | dB |
| Return Loss (Min.) | 23@25 \pm 5 $^{\circ}$ C 21@-40~+125 $^{\circ}$ C | dB |
| 3rd IMD (Max.) | -65@2x20W,5MHz spacing | dBc |
| Extend frequency | / | MHz |
| Group delay | 2 | ns |
| Isolation of extend frequency | / | dB |
| 2nd harmonic | / | dBc |
| 3rd harmonic | / | dBc |
| Power FWD/REV/PEAK | 150/-/800 | 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.



Mechanical Specifications:



Unit: Millimeters

Notes:

1. The housing and pins are silver-plated.
2. Tolerance ± 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. The XXXXXXXX on the label represents the part number
6. The SSSSSS on the label represents the serial number
7. The black dots represent the input port.