

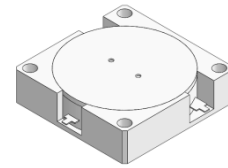


## DP3457C

### ENG PART:DP-82X82CD-160.5T164.5-CW

160.5MHz to 164.5MHz Single-Junction Drop-in Circulator

| REV. | DESCRIPTION     | REVISOR | DATE     | APPROVED |
|------|-----------------|---------|----------|----------|
| A    | Product release | ZC.Wu   | 2024/9/4 | Nick     |

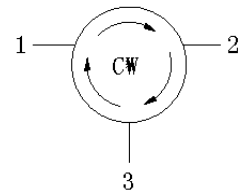


#### Applications:

- Wireless Infrastructure
- Power Amplifier

#### Features:

- Operating frequency range:160.5MHz to164.5MHz
- Operating temperature range:+20°C to +60°C
- Storage temperature range: -40°C to +85°C
- BeOfree&RoHS compliant



Block Diagram



### Electrical Specifications:

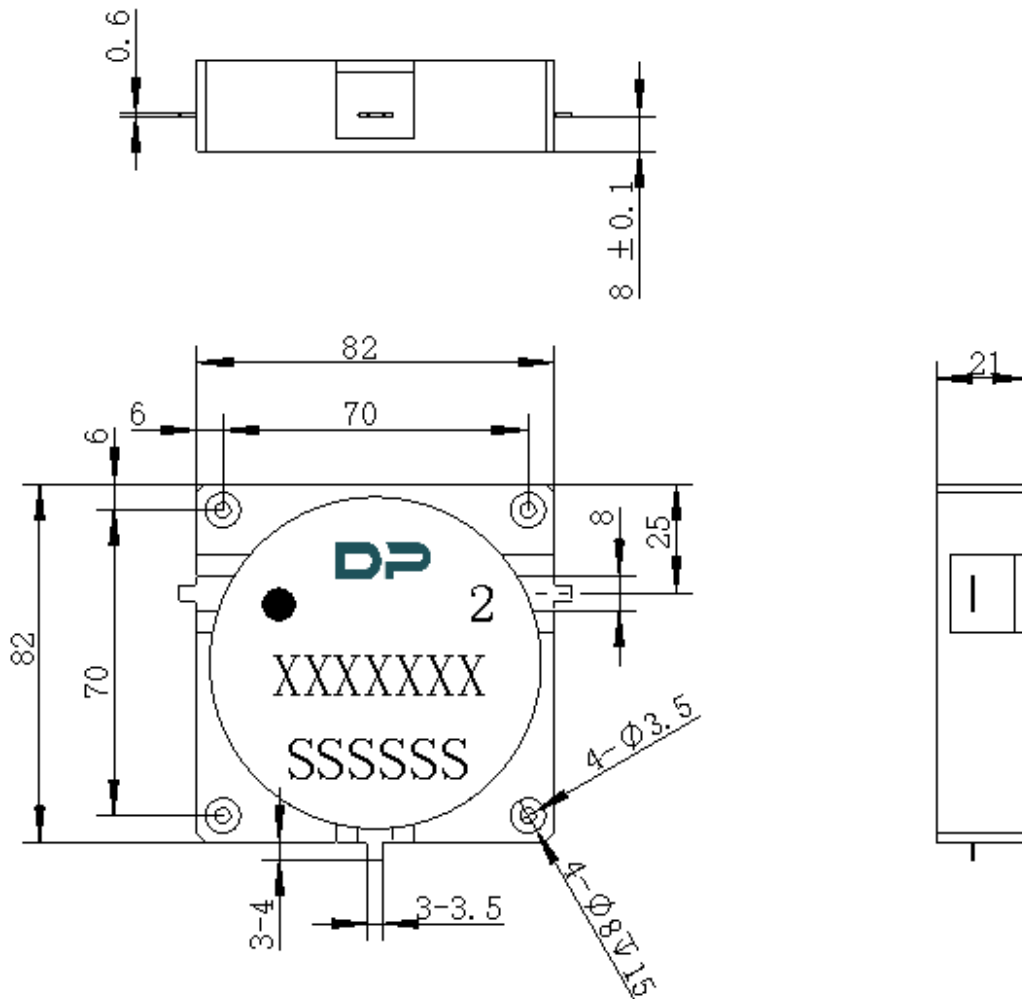
| ITEM                                    | SPECIFICATION                |          |
|---|------------------------------|----------|
| Frequency                               | 160.5-164.5                  | MHz      |
| Direction                               | CW                           |          |
| Impedance                               | Typ: 50                      | $\Omega$ |
| Insertion Loss (Max.)                   | 0.2@25±5°C<br>0.25@+20~+60°C | dB       |
| Isolation (Min.)                        | 25@25±5°C<br>22@+20~+60°C    | dB       |
| Return Loss (Min.)                      | 25@25±5°C<br>22@+20~+60°C    | dB       |
| Power FWD/REV/PEAK                      | 1500/ -/4000                 | W        |
| Insertion Loss Phase Consistency (Max.) | 3                            | °        |
| 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 is nickel-plated and the circuit is 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 XXXXXXX 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