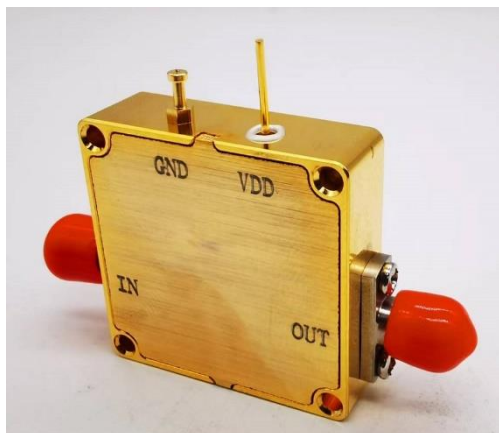


3-13GHz 360 Degree Analog Phase Shifter



Description:

The AT-APS-0313-360 is an Analog Phase Shifter which is controlled via an analog control voltage from 0 to +13V.

It provides a continuously variable phase shift of 0 to 360 degrees from 3GHz to 13GHz with consistent insertion loss versus phase shift. The phase shift is monotonic with respect to control voltage.

Feature

- ✓ Wide Band Operation 3-13GHz
- ✓ 360degree Phase Shift
- ✓ Low Insertion Loss
- ✓ Single Control Operation
- ✓ Customized Available

Application

- ✓ Point to Point Radios
- ✓ VSAT Radios
- ✓ Test Equipment
- ✓ Fiber Optic
- ✓ Military and Space

Electronical Specifications:

| Parameter | Min | Typical | Max | Unit |
|-------------------------|-----|---------|------|----------|
| Frequency Range | | 3-13 | | GHz |
| Phase Range | 330 | 360 | | Degree |
| Insertion Loss | | -5.0 | -8dB | dB |
| Return Loss | | -15 | | dB |
| Control Voltage | | 0-13 | | V |
| Control Current | | 1 | | uA |
| Sensitivity | | 36 | | Deg/V |
| Response Time | | 0.14 | | us |
| Temperature Sensitivity | | 0.2 | | Degree/C |
| Spec Temp | | 25C | | |





AT-APS-0313-360

Analog Phase Shifter, 3-13GHz, 360 degree

Mechanical Information

| Item | Description |
|-----------------|--------------|
| Input Port | SMA Female |
| Output Port | SMA Female |
| Case Material | Copper |
| Finish | Gold Plated |
| Package Sealing | Epoxy Sealed |
| Weight | 80g |
| Size: | See outline |

Absolute Maximum Ratings Table

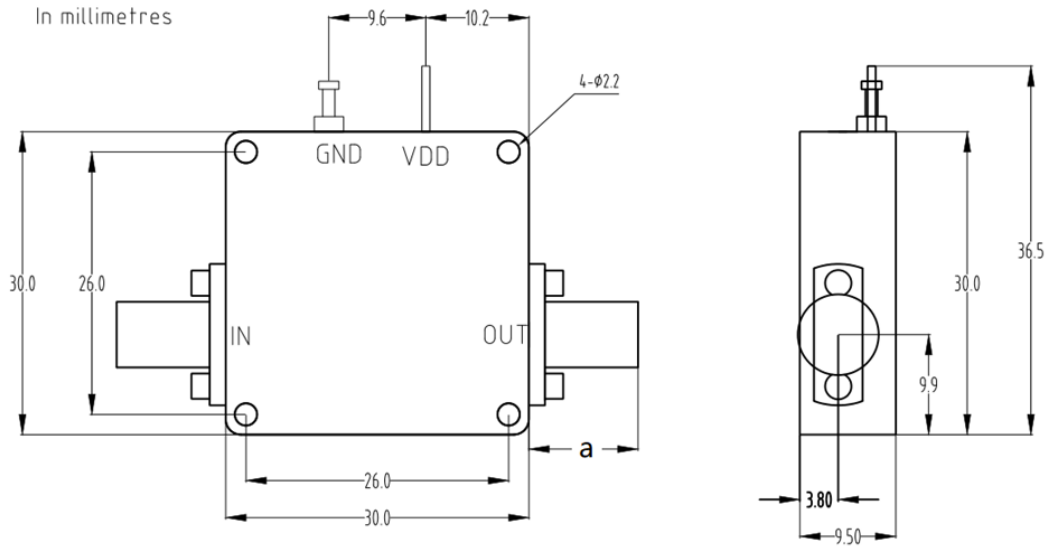
| Parameter | Value |
|-----------------------|--------------|
| Control Voltage | -0.5 to +18V |
| RF Input Power | +15dBm |
| Operating Temperature | -40 to +85C |
| Storage Temperature | -65 to +150C |
| ESD Sensitive(HBM) | Class 1B |

Notes:

- ✓ Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
- ✓ This data is only for reference, not for guaranteed specifications.
- ✓ Please contact AT Microwave team to make sure you have the most current data.
- ✓ Always pay attention to the temperature of the case, heatsink and fan are required if case temperature exceeds over 50C.



Dimension: (unit in mm)



| | <26.5GHz | <40GHz | <50GHz | <67GHz |
|------------|----------|--------|--------|--------|
| Connector | SMA | 2.92mm | 2.4mm | 1.85mm |
| Lenth of a | 9.4mm | 9.5mm | 10.8mm | 11.3mm |

Note: Female Default. Contact with us for other types.

