

Part No.: TLDP8G12G-360-6A

360° Phase Shift 8-12GHz

Electrical:

Frequency Range: 8-12 GHz

Insertion Loss: $\leq 8.5\text{dB}$, 7.5dB Typ.

VSWR: ≤ 1.8 , 1.5 Typ

Control Step size: 5.625 °

Control Bits: 6 bit

Phase Range: 360°

Phase Flatness : $\pm 4^\circ$ Typ.

Power Handling Input Power for

1 dB Compression: 25dBm

bias control current : 25 mA

Mechanical :

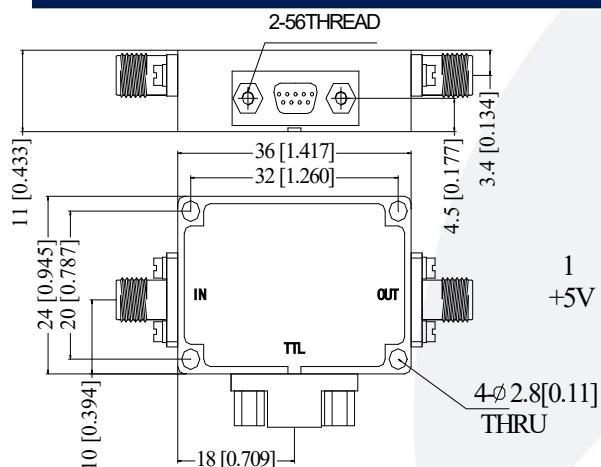
Temperature Range: -45° C - +70° C

Impedance: 50 OHMS

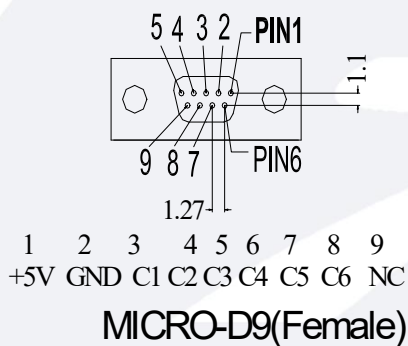
Connectors: D-SUB 9 /SMA-Female

Relative Humidity: 0 ~ 90%

Outline Drawing:



Unit: mm



Absolute Maximum Ratings

Biasing	6V
TTL Control Voltage	0 / +5V
RF Input power	+25dBm

Logic "0" = 0 V, Logic "1" =+5 V
Truth Table

Control Voltage Input						Phase Shift (Degree)
C6	C5	C4	C3	C2	C1	Reference
0	0	0	0	0	0	5.625
0	0	0	0	1	0	11.25
0	0	0	1	0	0	22.5
0	0	1	0	0	0	45
0	1	0	0	0	0	90
1	0	0	0	0	0	180
1	1	1	1	1	1	360