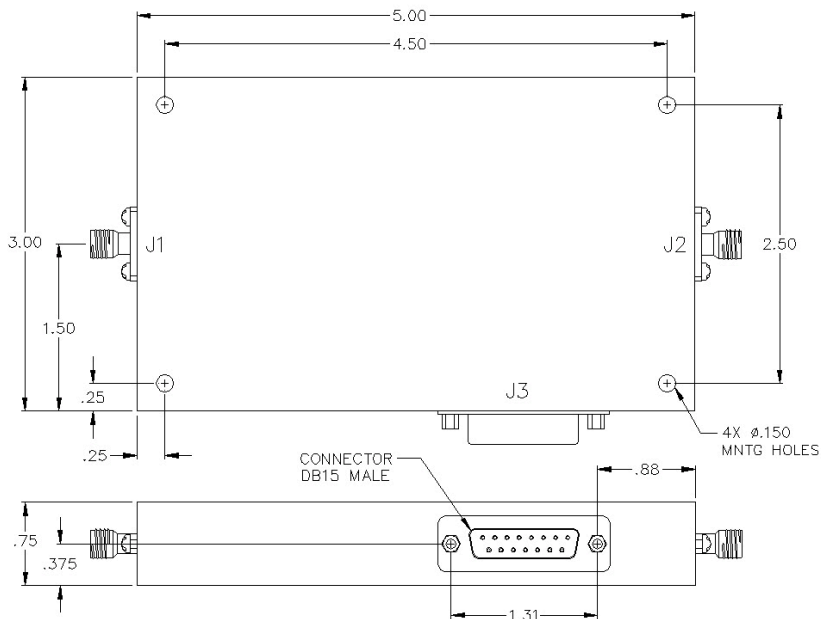


# DST-13-480/1S

## DIGITAL CONTROLLED PHASE SHIFTER

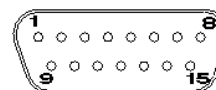


**Logic Table**

State	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Phase (deg.)
-	1	1	1	1	1	1	1	1	0°
1	0	1	1	1	1	1	1	1	1.4°
2	1	0	1	1	1	1	1	1	2.8°
3	1	1	0	1	1	1	1	1	5.6°
4	1	1	1	0	1	1	1	1	11.2°
5	1	1	1	1	0	1	1	1	22.5°
6	1	1	1	1	1	0	1	1	45°
7	1	1	1	1	1	1	0	1	90°
8	1	1	1	1	1	1	1	0	180°

A combination of the above states will provide a phase shift equal to the sum of the selected states at center frequency.

**Pin-Out**



## SPECIFICATIONS

**Name:** DST-13-480/1S  
**Frequency Range:** 2-4 GHz  
**Insertion Loss:** 6.0 dB max.  
**Number of Bits:** 8  
**Least Significant Bit:** 1.4° LSB  
**Phase Range:** 360°  
**VSWR:** 1.80:1 dB max.  
**Connector Type:** SMA

Pin 01 = Phase: 1.4 (LSB)      Pin 09 = N/C  
 Pin 02 = Phase: 2.8            Pin 10 = N/C  
 Pin 03 = Phase: 5.6            Pin 11 = N/C  
 Pin 04 = Phase: 11.25        Pin 12 = N/C  
 Pin 05 = Phase: 22.5         Pin 13 = +5 Vdc  
 Pin 06 = Phase: 45            Pin 14 = -5 Vdc  
 Pin 07 = Phase: 90            Pin 15 = Ground  
 Pin 08 = Phase: 180

Phase is  $\pm 3.0\%$  at center frequency.  
 Other frequency bands and resolution ranges available.

This is a commercial off the shelf (COTS) product.  
 For an equivalent product that meets DFARS materials compliance, contact sales.  
 All specifications are subject to change without notice at any time. Rev: 250614

