

Product Specification

CMIPS250290B8 8-bit Dispersive Phase Shifter

Electrical Specifications

Parameters	Specifications
Freq Range	25 ~ 29 GHz
Insertion Loss	≤ 12 dB
VSWR	≤ 1.8:1
Phase Shift	Step 1.4°, 8 bit
Phase Shift Accuracy	≤ ±5° @ 27 GHz [Center Frequency]
Amplitude Ripple	≤ ±1 dB Over Frequency and Phase Range
Phase Balance	≤ ±3° @ Between All the Same Batch Switches
Max Input Power	+30 dBm
Port Connectors	SMA-Female
Power Supply	+5 V [180 mA], -5 V [180 mA]
Operating Temperature	-40 °C ~ +70° C
Surface Finish	Natural Color Conductive Oxidation
Dimensions	See Attached Drawing [Dimensions are in mm]

Truth Table

E1	E2	E3	E4	E5	E6	E7	E8	180°	90°	45°	22.5°	11.25°	5.625°	2.8°	1.4°
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	180°	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0	0	90°	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	0	45°	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0	22.5°	0	0	0	0
0	0	0	0	1	0	0	0	0	0	0	0	11.25°	0	0	0
0	0	0	0	0	1	0	0	0	0	0	0	0	5.625°	0	0
0	0	0	0	0	0	1	0	0	0	0	0	0	0	2.8°	0
0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1.4°
1	1	1	1	1	1	1	1	358.575°							

Outline Drawing

