

Product Specification

CMIPS-4080B5S 5 Bit SMT Dispersive Phase Shifter

Electrical Specifications

Parameters	Specifications
Freq Range	4 ~ 8 GHz
Insertion Loss	3.0 dB Typ.; 3.5 dB Max
VSWR	1.6:1 Max
Phase Shift	Step 11.25°, 5 bit
Phase Shift Accuracy	≤±4° @ 6 GHz [Center Frequency]
Amplitude Ripple	±1 dB
Max Input Power	4 W CW; 50 W Peak
Port Connectors	SMT
Power Supply	+5 V [300 mA], -20 V [30 mA]
Operating Temperature	-40° C ~ +70° C
Dimensions	See Attached Drawing [Dimensions are in mm]
Note: External Driver, Driver Output Voltage is +5 V, -20 V	

Truth Tables

E1 & E2 Control 11.25°		
E1	E2	11.25°
+5 V [80 mA]	-20 V [0 mA]	0°
-20 V [0 mA]	+5 V [80 mA]	11.25°

E3, E4, E5, E6 Control 22.5° & 45°							
E3	E4	E5	E6	0°	22.5°	45°	67.5°
+5 V [80 mA]	-20 V [0 mA]	-20 V [0 mA]	-20 V [0 mA]	0°	Off	Off	Off
-20 V [0 mA]	+5 V [80 mA]	-20 V [0 mA]	-20 V [0 mA]	Off	22.5°	Off	Off
-20 V [0 mA]	-20 V [0 mA]	+5 V [80 mA]	-20 V [0 mA]	Off	Off	45°	Off
-20 V [0 mA]	-20 V [0 mA]	-20 V [0 mA]	+5 V [80 mA]	Off	Off	Off	67.5°

E7, E8, E9, E10 Control 90° & 180°							
E7	E8	E9	E10	0°	90°	180°	270°
+5 V (80 mA)	-20 V (0 mA)	-20 V (0 mA)	-20 V (0 mA)	0°	Off	Off	Off
-20 V (0 mA)	+5 V (80 mA)	-20 V (0 mA)	-20 V (0 mA)	Off	90°	Off	Off
-20 V (0 mA)	-20 V (0 mA)	+5 V (80 mA)	-20 V (0 mA)	Off	Off	180°	Off
-20 V (0 mA)	-20 V (0 mA)	-20 V (0 mA)	+5 V (80 mA)	Off	Off	Off	270°

Outline Drawing

