



CORRY MICRONICS, INC **PRODUCT SPECIFICATION**

**CMIPS-4080B5S**  
**5 Bit SMT Dispersive Phase Shifter**

**Electrical Specification**

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°

**CALL OUR SALES DEPARTMENT FOR MORE INFORMATION OR VARIATIONS OF THIS PRODUCT.**

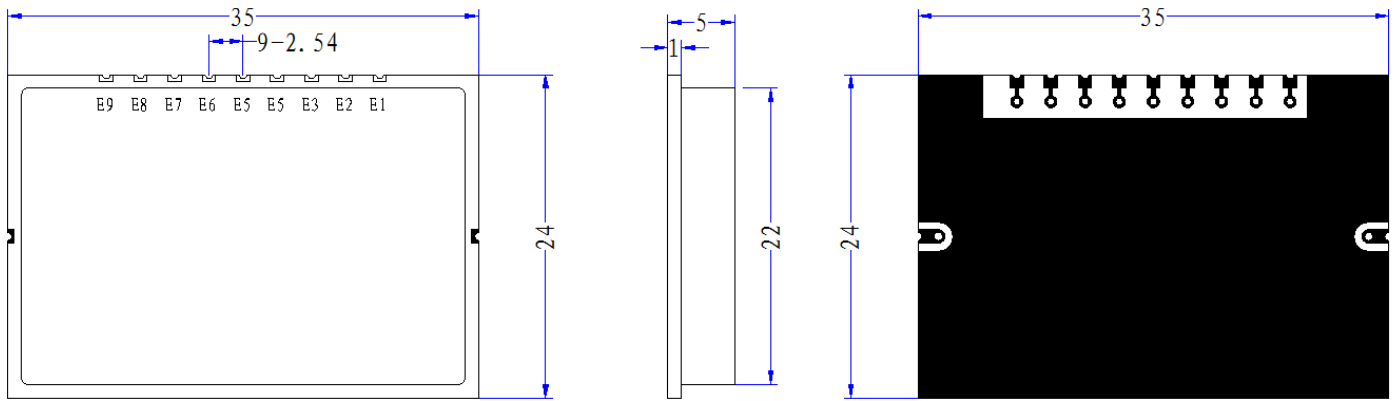
**Corry Micronics, Inc. One Plastics Rd. - Corry, PA 16407**  
**(724) 940-7556 ext. 138 Fax (724) 940-7707 [www.cormic.com](http://www.cormic.com)**

Corry Micronics Inc. herein referred to CMI, believes this information to be accurate, but makes no warranties, expressed or implied as to the accuracy of this document. CMI assumes no liability for any injury, loss, damage, direct or consequential arising from the use of our products. User assumes all risk whatsoever in connection with its intended use. CMI also reserves the right to change this document without notice. 02/11/2019



# CORRY MICRONICS, INC PRODUCT SPECIFICATION

## Outline Drawing



**CALL OUR SALES DEPARTMENT FOR MORE INFORMATION OR VARIATIONS OF THIS PRODUCT.**

**Corry Micronics, Inc. One Plastics Rd. - Corry, PA 16407**  
**(724) 940-7556 ext. 138 Fax (724) 940-7707 [www.cormic.com](http://www.cormic.com)**

Corry Micronics Inc. herein referred to CMI, believes this information to be accurate, but makes no warranties, expressed or implied as to the accuracy of this document. CMI assumes no liability for any injury, loss, damage, direct or consequential arising from the use of our products. User assumes all risk whatsoever in connection with its intended use. CMI also reserves the right to change this document without notice. 02/11/2019