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Control
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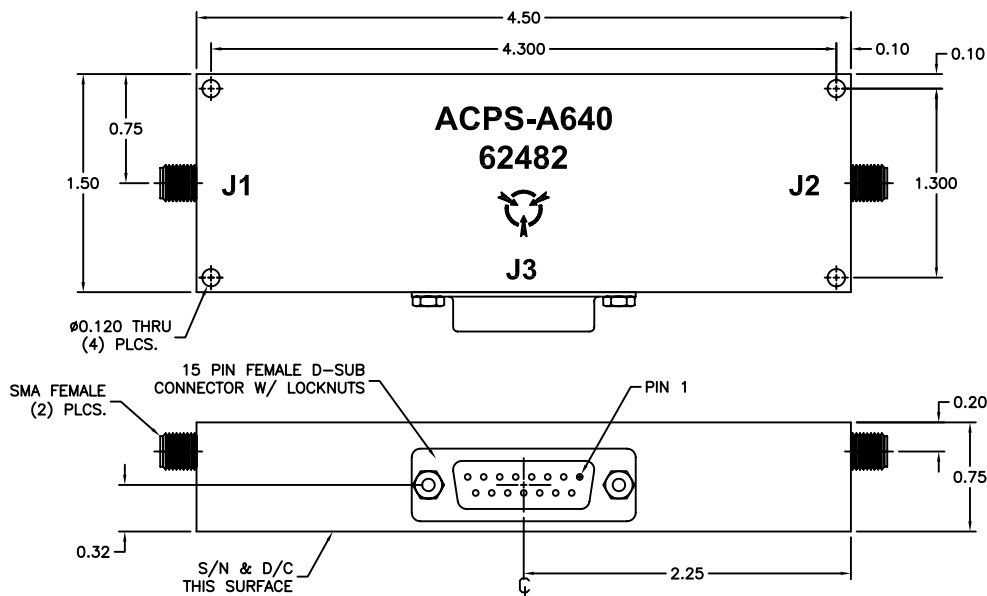
PRODUCT SPECIFICATION
PART NUMBER: ACPS-A640

DESCRIPTION: PHASE SHIFTER, DIGITAL, 9-BIT, 0.7° LSB

FREQUENCY RANGE: 2000 - 2400 MHz
INSERTION LOSS: 5.5 dB MAX.
PHASE CONTROL RANGE: 360°
RESOLUTION: 0.7° (LSB)
ACCURACY: ± 5%
CONTROL LOGIC: TTL 0 = REFERENCE
TTL 1 = PHASE SHIFT (LAG)
CONTROL BITS: PIN 1 = 0.7°
PIN 2 = 1.4°
PIN 3 = 2.8°
PIN 4 = 5.6°
PIN 5 = 11.3°
PIN 6 = 22.5°
PIN 7 = 45°
PIN 8 = 90°
PIN 9 = 180°
PIN 10 - 12 = GND
PIN 13 = +5V
PIN 14 = N/C
PIN 15 = GND
2.0 : 1 MAX.

VSWR:
TEMPERATURE
(OPERATING): 0 TO +50°C
(STORAGE): -55°C TO +100°C
SWITCHING TIME: 200 nSEC. MAX.
VIDEO FEEDTHRU: -100 dBm MAX. (IN-BAND)
RF POWER, OPERATING: +27 dBm MIN.
RF POWER, SURVIVAL: +33 dBm MIN.
INSERTION LOSS VS. FREQUENCY: ± .4 dB MAX.
INSERTION LOSS VS. TEMPERATURE: ± .1 dB MAX.
INSERTION LOSS VS. PHASE: ± .40 dB MAX.
PHASE VS. FREQUENCY (SLOPE): ± 50° MAX @ FULL PHASE
PHASE VS. TEMPERATURE: ± 1° MAX. FROM +25°C
DC REQUIREMENTS: +5 DC @ 250 mA MAX.
EMI LEAKAGE: -80 dBm MAX.
RF CONNECTORS: SMA FEMALE
BIAS AND CONTROL: 15 PIN D-SUB
FINISH: GRAY EPOXY PAINT PER MIL-C-22750

REV.	DESCRIPTION	DATE	APP'D
-	INITIAL RELEASE	8/14/01	CP
A	UPDATED SPECS.	6/1/05	RG



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DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH: RMS 63
ANGLES: ±1/2° FRACTIONS: ±1/64
4 PLACE DECIMALS: ±.0005
3 PLACE DECIMALS: ±.005
2 PLACE DECIMALS: ±.01

DRAWN BY: C PERRONE 8/14/01

APPROVED BY: D. WHEAT 8/14/01

SHEET: 1 OF 1

FILECODE: ACPS-A640

SPEC SHEET REV -