REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	8/11/97	
	B	SEE ECR# 09-004	1/22/09	

SPECIFICATIONS:

- FREQUENCY: ..... 0.5 GHz TO 18 GHz
- INSERTION LOSS: ..... REFLECTIVE: 2.75db
  ABSORPTIVE: 3.75db
- ISOLATION: ..... 0.5 GHz TO 2 GHz: 60db
  2 GHz TO 18 GHz: 70db
- VSWR: ..... REFLECTIVE IN/OUT: 2.0:1
  ABSORPTIVE IN/OUT: 2.0:1
  ABSORPTIVE OUT/OFF: 2.0:1
- SPEED: ..... RISE: 10ns TYPICAL, 15ns MAX.
  FALL: 10ns TYPICAL, 15ns MAX.
  DELAY ON: 75ns TYPICAL, 100ns MAX.
  DELAY OFF: 75ns TYPICAL, 100ns MAX.
- POWER INPUT: ..... (CW)+20dBm (STANDARD), +10 dBm (HIGH SPEED)
- SURVIVAL POWER: ... 1 WATT CW, 10 WATTS PEAK 1 usec
- CONTROL: ..... TTL LOGIC "0"=ON "1"=OFF
- POWER SUPPLY: ..... +5V @ 150 mA MAX.
  −5V @ 75mA MAX.(RELECTIVE)
  100mA MAX.(ABSORPTIVE/NON-REFLECTIVE)

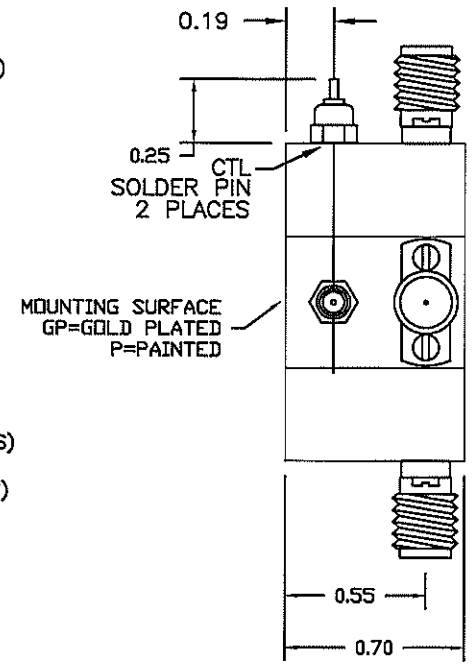
OPTIONS:

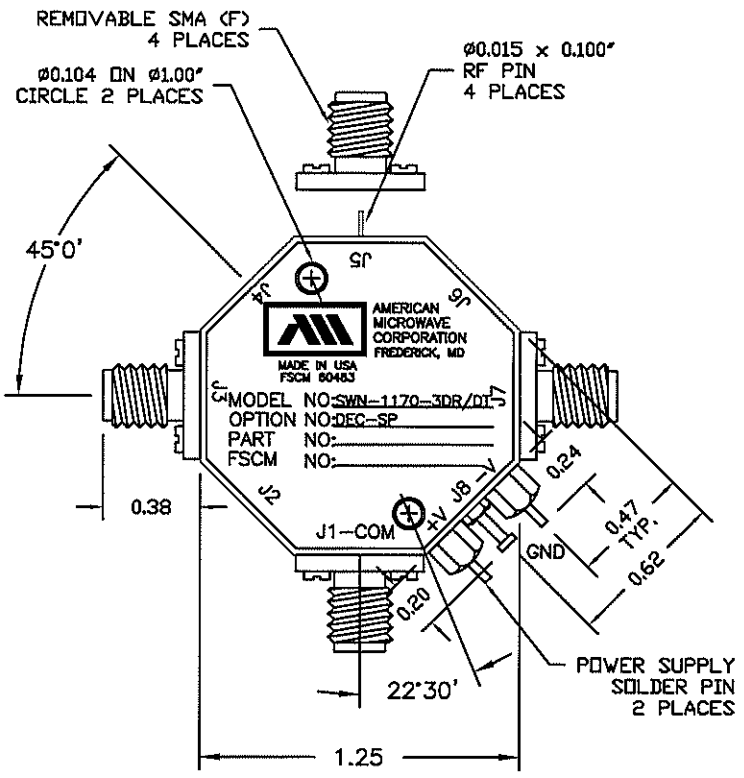
INDEPENDENT CONTROL WITH SOLDER PIN STANDARD
DEC-SP ..... 2 BIT DECODER WITH SOLDER PIN
10M18 ..... 10 MHz TO 18 GHz (INSERTION LOSS INCREASES BY 1.5db AT 10 MHz AND 0.5db AT 18 GHz)
100M18 ..... 100 MHz TO 18 GHz (INSERTION LOSS INCREASES BY 1.5db AT 100 MHz AND 0.5db AT 18 GHz)
118 ..... 1 GHz TO 18 GHz (NO CHANGE IN INSERTION LOSS)
218 ..... 2 GHz TO 18 GHz (NO CHANGE IN INSERTION LOSS)
412 ..... 4 GHz TO 12.4 GHz (NO CHANGE IN INSERTION LOSS)
618 ..... 6 GHz TO 18 GHz (NO CHANGE IN INSERTION LOSS)
1218 ..... 12 GHz TO 18 GHz (NO CHANGE IN INSERTION LOSS)
100M20 ..... 100 MHz TO 20 GHz (INSERTION LOSS INCREASES BY 1.5db AT 100 MHz AND 1.0db AT 20 GHz)
220 ..... 2 GHz TO 20 GHz (INSERTION LOSS INCREASES BY 1.0db AT 20 GHz)
1020 ..... 10 GHz TO 20 GHz (INSERTION LOSS INCREASES BY 1.0db AT 20 GHz)
B01 ..... −12V POWER SUPPLIES
B02 ..... −15V POWER SUPPLIES
B03 ..... REVERSE LOGIC "1"=ON "0"=OFF
B04 ..... DRIVERLESS, CURRENT CONTROLLED
B05 ..... HIGH SPEED, TURNON/TURNOFF 25 nsec MAXIMUM WHEN APPLICABLE
B06 ..... HIGH POWER − SPECIFY CW POWER, PEAK POWER, PULSE WIDTH, DUTY CYCLE, RF FREQUENCY AND BANDWIDTH
B07 ..... CUSTOM DESIGNED PRODUCT− SPECIFY INITIALS OF CUSTOMER
B08 ..... LOW VIDEO TRANSIENTS − SPECIFY VIDEO BANDWIDTH
B09 ..... LOW INSERTION LOSS VERSION
B10 ..... HIGHER ISOLATION VERSION
B11 ..... 0.40" THICK VERSION
B12 ..... 0.88" THICK VERSION

ENVIRONMENTAL RATINGS:

- TEMPERATURE: ..... −55°C TO +85°C (OPERATING)
  −65°C TO +125°C (STORAGE)
- HUMIDITY: ..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK: ..... MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: ..... MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: ..... MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: ... MIL-STD-202F, METHOD 107D COND. A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION





NOTE:
DR=WITH DRIVER, REFLECTIVE
DT=WITH DRIVER, NON-REFLECTIVE/ABSORPTIVE

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

CONTRACT NO.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND	
APPROVALS	DATE	TITLE: OUTLINE DRAWING SWN-1170-3DR/DT-DEC-SP REFLECTIVE OR NON-REFLECTIVE/ABSORPTIVE RADIAL SOLID STATE SWITCH	
DRAWN WSP	8/11/97		
CHECKED			
ISSUED		SIZE A / FSCM NO. 60483 / DWG NO. 100-4171-2 / REV. B	
		SCALE N/S	SHEET 1 of 1