DESCRIPTION:

AMC MODEL SWN–2DR/DT–AKG–STANDARD IS A SINGLE POLE TWO THROW, REFLECTIVE OR NON–REFLECTIVE/ABSORPTIVE SWITCH MODULE WITH VERY HIGH ISOLATION, LOW LOSS, HIGH SPEED AND WITH INTEGRAL TTL DRIVER, DESIGNED FOR BROAD BAND OPERATIONS.

SPECIFICATIONS:

- FREQUENCY: · · · · · · · · 0.5 GHz TO 18 GHz
- INSERTION LOSS: · · · · · REFLECTIVE: 4.0dB
  ABSORPTIVE: 4.5dB
- ISOLATION: · · · · · · · · · · 0.5 GHz TO 6 GHz: 110dB
  6 GHz TO 18 GHz: 100dB
- 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"= J1–J2 ON "1"= J1–J3 ON
- POWER SUPPLY: · · · · · +5V @ 100 mA MAX.
  –5V @ 75mA MAX.(RELECTIVE)
  100mA MAX.(ABSORPTIVE/NON–REFLECTIVE)
- SIZE · · · · · · · · · · · · · 1.2" (L) x 1.00" (W) x 0.50" (H)
- WEIGHT · · · · · · · · · · · 1.2 oz.

OPTIONS:

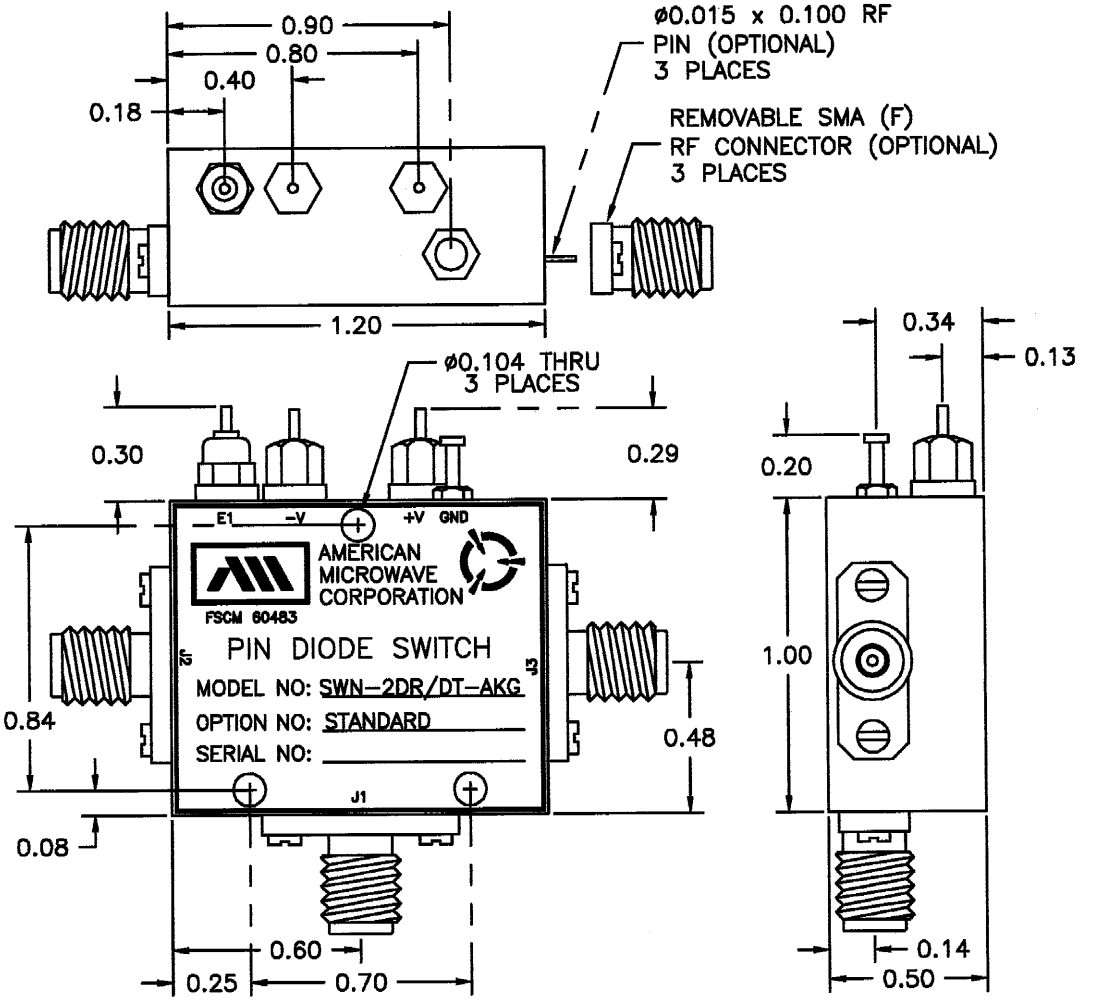
	SINGLE CONTROL WITH SOLDER PIN STANDARD
IND–SP	INDEPENDANT CONTROL WITH SOLDER PIN (LOGIC "0" = ON "1" = OFF)
10M18	10 MHz TO 18 GHz (INSERTION LOSS INCREASES BY 1.5db AT 10 MHz AND 0.5db AT 18 GHz)
100M18	100 MHz TO 18 GHz (INSERTION LOSS INCREASES BY 1.5db AT 100 MHz AND 0.5db AT 18 GHz)
118	1 GHz 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 20 nsec MAXIMUM WHEN APPLICABLE OR OPTION HS
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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
		ORIGINAL RELEASE	7/27/99	



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

APPROVALS	DATE
DRAWN WSP, RRA	7/27/99
CHECKED	
ISSUED	

AMERICAN MICROWAVE CORPORATION
FREDERICK, MARYLAND

TITLE
OUTLINE DRAWING
SWN–2DR/DT–AKG–STANDARD
SOLID STATE SWITCH

SIZE	FSCM NO.	DWG NO.	REV.
A	60483	100–4790–1	

SCALE N/S SHEET 1 of 2