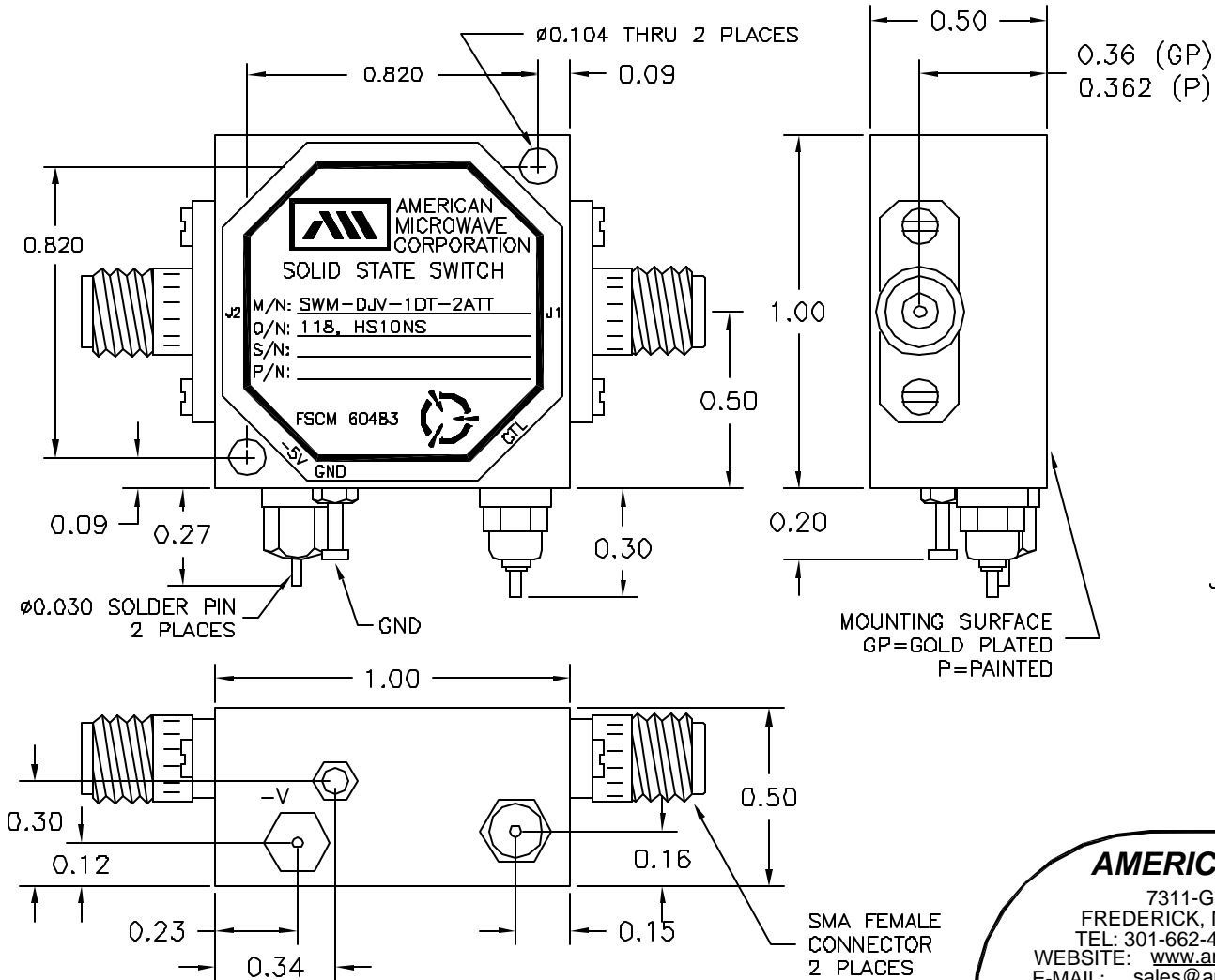


# DESCRIPTION

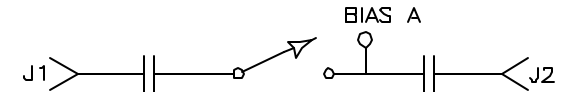
AMC MODEL SWM-DJV-1DT-2ATT OPTION: 118, HS10NS IS A SINGLE POLE SINGLE THROW NON-REFLECTIVE/ABSORPTIVE SWITCH MODULE WITH VERY LOW VIDEO TRANSIENT, ULTRA HIGH SPEED, HIGH ISOLATION AND WITH INTEGRAL TTL DRIVER, DESIGNED FOR 1 TO 18 GHz OPERATION.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-		ORIGINAL RELEASE JOB# 503090PEXN	1/11/08	



## MECHANICAL OUTLINE

## BLOCK DIAGRAM



## AMERICAN MICROWAVE CORPORATION

7311-G GROVE ROAD  
 FREDERICK, MARYLAND 21704 USA  
 TEL: 301-662-4700 FAX: 301-662-4938  
 WEBSITE: [www.americanmicrowavecorp.com](http://www.americanmicrowavecorp.com)  
 E-MAIL: [sales@americanmicrowavecorp.com](mailto:sales@americanmicrowavecorp.com)  
 ISO 9001:2000 CERTIFIED



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

APPROVALS		DATE	TITLE		
DRAWN	<i>[Signature]</i>	1/11/08	MECHANICAL OUTLINE SWM-DJV-1DT-2ATT OPTION: 118, HS10NS 1 - 18 GHz, SINGLE POLE SINGLE THROW SWITCH		
CHECKED			SIZE	FSCM NO.	DWG NO.
ISSUED			A	60483	100-7413
			SCALE	N:S	
			SHEET		2 OF 3

## DESCRIPTION

AMC MODEL SWM-DJV-1DT-2ATT OPTION: 118, HS10NS IS A SINGLE POLE SINGLE THROW NON-REFLECTIVE/ABSORPTIVE SWITCH MODULE WITH VERY LOW VIDEO TRANSIENT, ULTRA HIGH SPEED, HIGH ISOLATION AND WITH INTEGRAL TTL DRIVER, DESIGNED FOR 1 TO 18 GHz OPERATION.

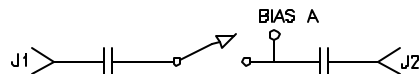
## SPECIFICATIONS

- FREQUENCY RANGE: ..... 1 TO 18 GHz
- INSERTION LOSS: ..... 4.0 dB MAXIMUM
- ISOLATION: ..... 50 dB MINIMUM
- VSWR: ..... 2.0:1
- RISE TIME: ..... 2 nSec MAXIMUM
- FALL TIME: ..... 2 nSec MAXIMUM
- DELAY ON: ..... 10 nSec MAXIMUM
- DELAY OFF: ..... 10 nSec MAXIMUM
- POWER INPUT: ..... +20 dBm
- SURVIVAL POWER: ..... 1 WATT CW, 10 WATTS PEAK 1  $\mu$ Sec
- CONTROL: ..... TTL LOGIC "0" = ON  
TTL LOGIC "1" = OFF
- POWER SUPPLY: ..... -5V @ 25 mA MAXIMUM
- VIDEO TRANSIENT: ..... 20 mV P-P @ 300 MHz BANDWIDTH (2-20 GHz)  
4 mV P-P @ 20 MHz BANDWIDTH (2-20 GHz)  
150 mV P-P @ 300 MHz BANDWIDTH (DC-20 GHz)  
50 mV P-P @ 20 MHz BANDWIDTH (DC-20 GHz)
- SIZE: ..... 1.00" (L) x 1.00" (W) x 0.50" (H)
- WEIGHT: ..... 1.5 OUNCE TYPICAL

## OPTIONS:

- 118: ..... 1 TO 18 GHz FREQUENCY RANGE
- HS10NS: ..... HIGH SPEED 10 nSec SWITCHING TIME

BLOCK DIAGRAM



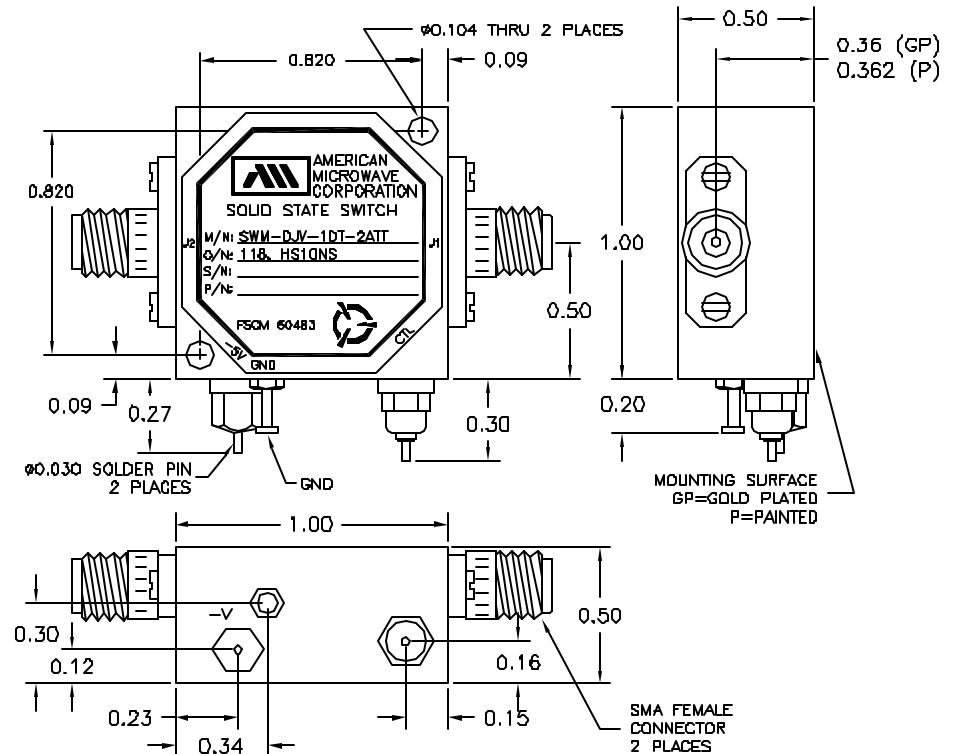
## ENVIRONMENTAL RATINGS:

- 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: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	-	ORIGINAL RELEASE	JOB# 503090PEXN	9/11/05



M/N = MANUFACTURER PART NUMBER  
O/N = OPTION NUMBER  
S/N = SERIAL NUMBER  
P/N = PART NUMBER

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ISO 9001:2000 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>JDS</i>		9/11/05	PRODUCT FEATURE SWM-DJV-1DT-2ATT OPTION: 118, HS10NS		
CHECKED			1 - 18 GHz, SINGLE POLE SINGLE THROW SWITCH		
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	60483	100-7413
			SCALE	SHEET	
			N:S	1 OF 3	