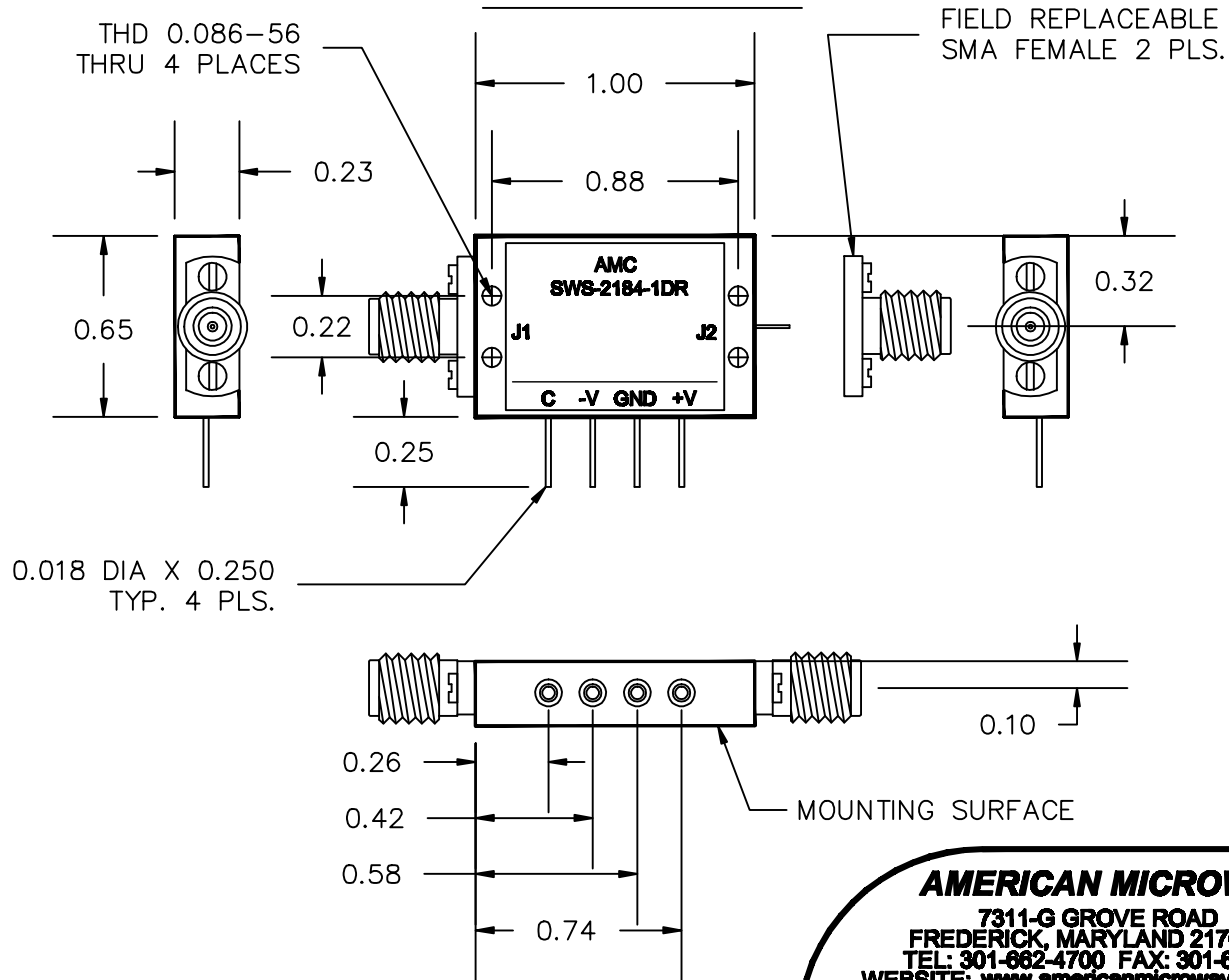


**DESCRIPTION**

AMC MODEL SWS-2184-1DR-LVT-HERM OPTION 052 IS A REFLECTIVE BROAD BAND SPST SWITCH MODULE WITH INTERGRAL TTL DRIVER PACKAGE IN A LOW PROFILE, HERMETICALLY SEALED HOUSING.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE	JOB# 605082-2	10/24/06

**MECHANICAL OUTLINE**



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



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

APPROVALS		DATE	TITLE	
DRAWN		10/24/06	MECHANICAL OUTLINE	
CHECKED			SWS-2184-1DR-LVT-HERM	
ISSUED			OPTION: 052	
SIZE	FSCM NO.	DWG NO.	0.5 GHz TO 2.0 GHz PIN DIODE SWITCH	
A	60483	100-7719-000	-	
SCALE N:S			SHEET 2 OF 4	

## DESCRIPTION

AMC MODEL SWS-2184-1DR-LVT-HERM OPTION 052 IS A REFLECTIVE BROAD BAND SPST SWITCH MODULE WITH INTERGRAL TTL DRIVER PACKAGE IN A LOW PROFILE, HERMETICALLY SEALED HOUSING.

## SPECIFICATIONS

- FREQUENCY RANGE: ..... 0.5 GHz TO 2.0 GHz
- INSERTION LOSS: ..... 1.0 dB MAXIMUM
- ISOLATION: ..... 80 dB MINIMUM
- VSWR: ..... 1.5:1
- SWITCHING SPEED: ..... RISE 3 nsec MAXIMUM  
FALL 5 nsec MAXIMUM  
ON 25 nsec MAXIMUM  
OFF 25 nsec MAXIMUM
- CONTROL LOGIC: ..... TTL COMPATIBLE UNITY LOAD  
LOGIC "0" = INSERTION LOSS  
LOGIC "1" = ISOLATION
- CONNECTORS:  
RF INPUT/OUTPUT: ..... SMA FEMALE  
POWER ..... SOLDER PIN  
CONTROL ..... SOLDER PIN
- RF POWER RATING ..... 2W CW, 10W PEAK (1US PW)
- POWER SUPPLY: ..... +5V @ 50 mA MAXIMUM  
-5V @ 5 mA MAXIMUM
- SIZE: ..... 1.00" (L) x 0.65" (W) x 0.23" (H)
- WEIGHT: ..... 1.5 OUNCE TYPICAL

## OPTIONS:

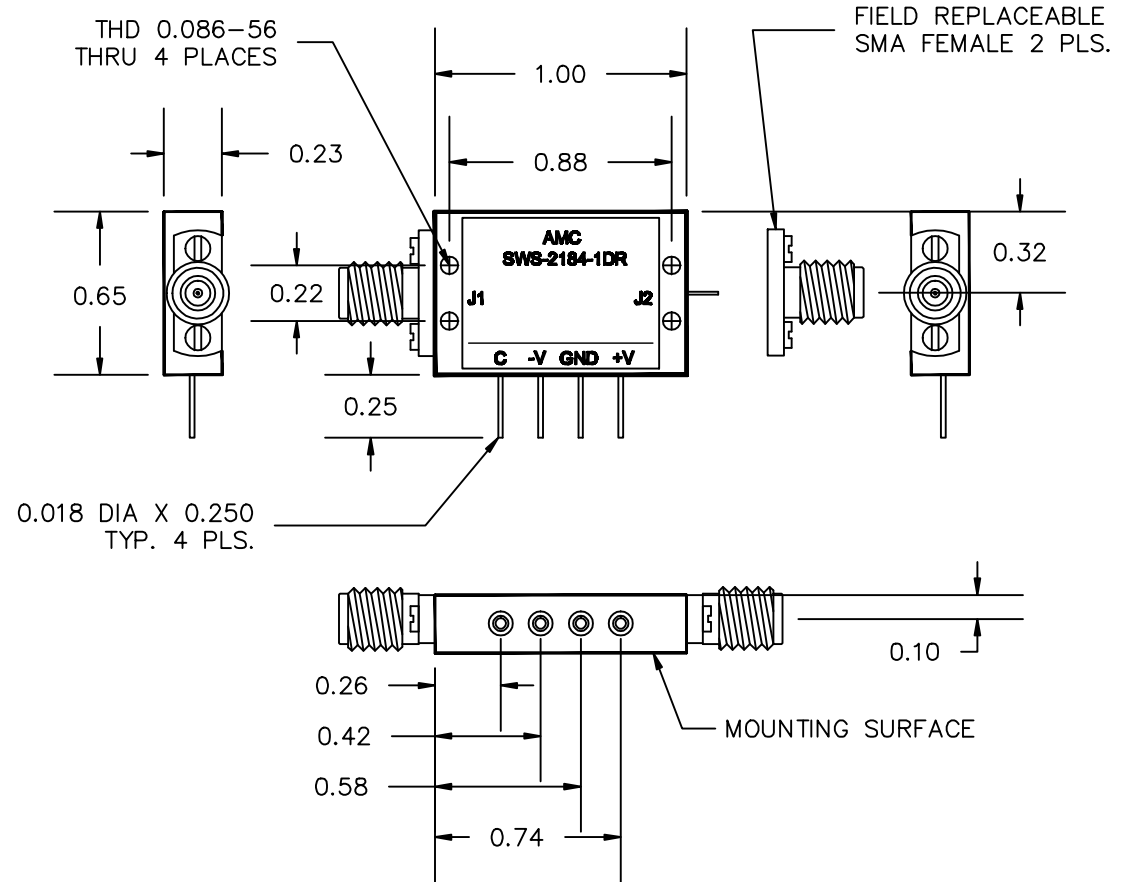
- 052: ..... 0.5 GHz TO 2.0 GHz
- LVT: ..... LOW VIDEO TRANSIENT
- HERM: ..... HERMETICALLY SEALED HOUSING

## ENVIRONMENTAL RATINGS:

- TEMPERATURE: ..... 0°C TO +55°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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	-	ORIGINAL RELEASE	JOB# 605082-2	10/24/06



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APPROVALS		DATE	TITLE		REV.
DRAWN <i>PRB</i>		10/24/06	PRODUCT FEATURE SWS-2184-1DR-LVT-HERM OPTION: 052 0.5 GHz TO 2.0 GHz PIN DIODE SWITCH		-
CHECKED			SIZE A	FSCM NO. 60483	DWG NO. 100-7719-000
ISSUED			SCALE N:S		SHEET 1 OF 4

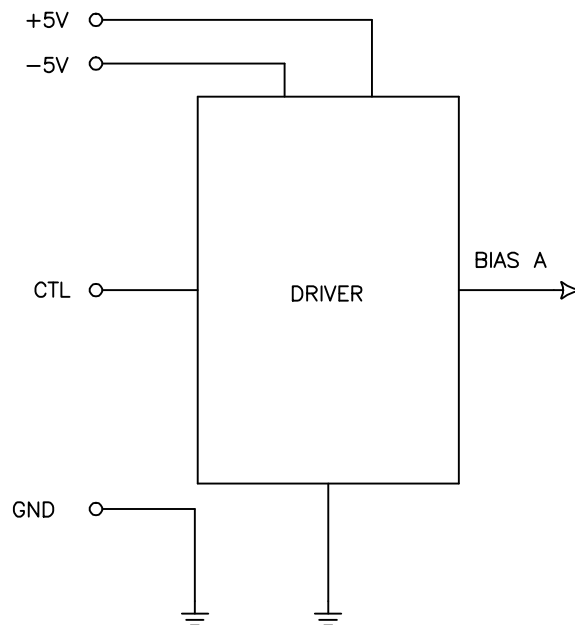
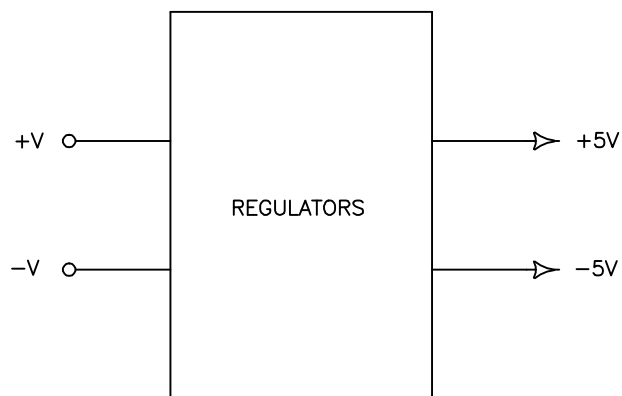
ALL DIMENSIONS ARE IN INCHES  
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X.XX ±0.020  
X.XXX ±0.010

**DESCRIPTION**

AMC MODEL SWS-2184-1DR-LVT-HERM OPTION 052 IS A REFLECTIVE BROAD BAND SPST SWITCH MODULE WITH INTERGRAL TTL DRIVER PACKAGE IN A LOW PROFILE, HERMETICALLY SEALED HOUSING.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE JOB# 605082-2	10/24/06	

**FUNCTIONAL BLOCK DIAGRAM**



**CONFIDENTIAL AND PROPRIETARY**

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APPROVALS		DATE	TITLE		
DRAWN		10/24/06	FUNCTIONAL BLOCK DIAGRAM		
CHECKED			SWS-2184-1DR-LVT-HERM		
ISSUED			OPTION: 052		
			0.5 GHz TO 2.0 GHz PIN DIODE SWITCH		
CHECKED	SIZE	FSCM NO.	DWG NO.	REV.	
	A	60483	100-7719-000	-	
SCALE N:S			SHEET		3 OF 4