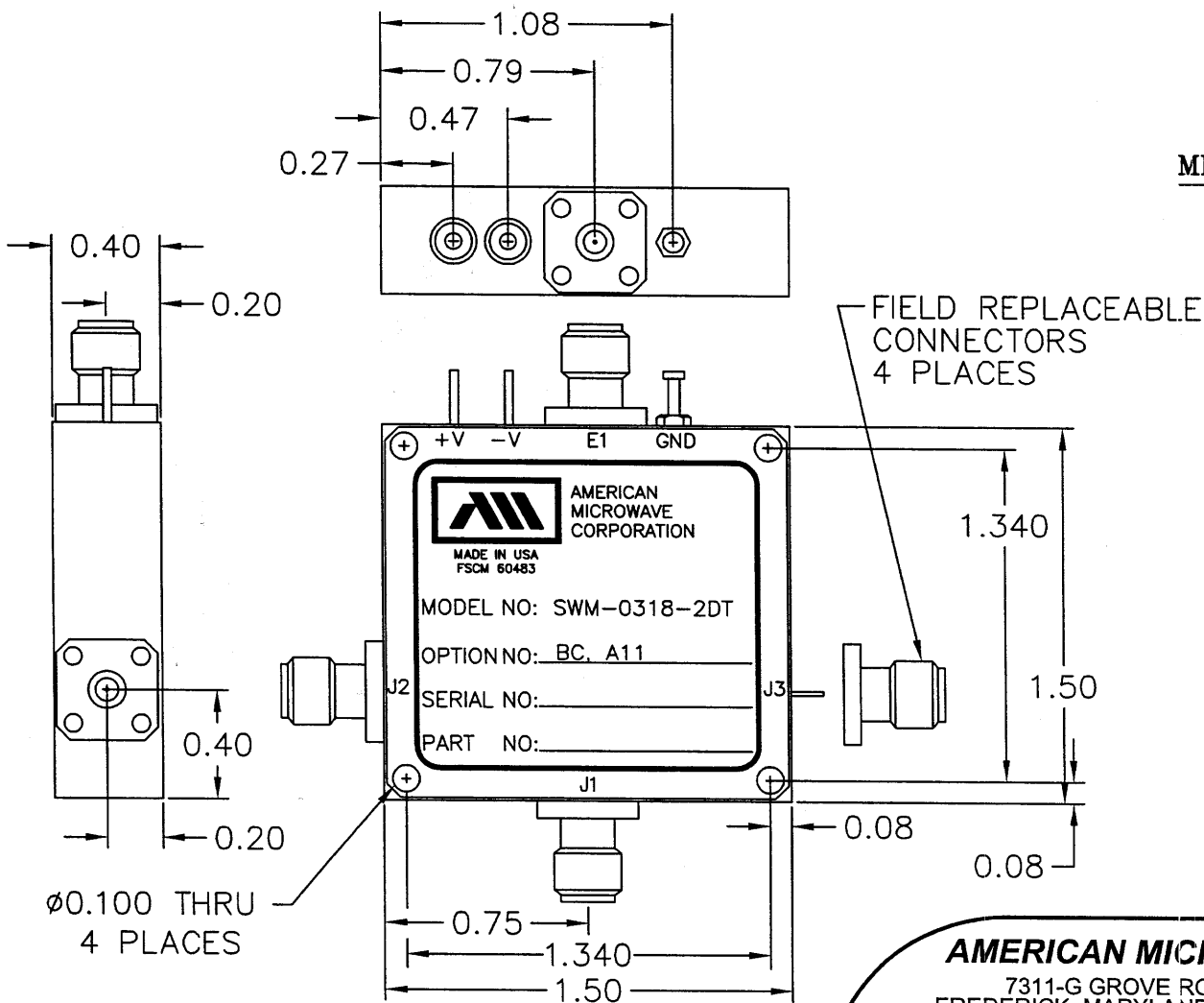


# DESCRIPTION

AMC MODEL SWM-0318-2DT OPTION: BC, A11 IS AN ABSORPTIVE GaAs MMIC SPDT SWITCH/MODULATOR WITH INTEGRAL TTL DRIVER, PACKAGED IN A LOW PROFILE HOUSING.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE JOB# 409227	10/19/04	EJC



## MECHANICAL OUTLINE

Ø0.100 THRU  
4 PLACES

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010  
WEIGHT: 1.5 oz.

### 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



APPROVALS		DATE	TITLE		
DRAWN <i>EJE</i>		10/19/04	MECHANICAL OUTLINE SWM-0318-2DT OPTION BC, A11		
CHECKED			SIZE A	FSCM NO. 60483	DWG NO. 100-7156
ISSUED			SCALE N:S		REV. -
				SHEET	2 OF 3

# DESCRIPTION

AMC MODEL SWM-0318-2DT OPTION: BC, A11 IS AN ABSORPTIVE GaAs MMIC SPDT SWITCH/MODULATOR WITH INTEGRAL TTL DRIVER, PACKAGED IN A LOW PROFILE HOUSING.

# SPECIFICATIONS

- FREQUENCY RANGE ..... 0.3-18 GHz
- INSERTION LOSS ..... 0.3-2 GHz:  $\leq$  2.0 dB MAXIMUM  
   (1.5 dB TYPICAL)  
   2-18 GHz:  $\leq$  4.0 dB MAXIMUM  
   (3.5 dB TYPICAL)
- ISOLATION .....  $\geq$  40 dB
- VSWR (ON/OFF) ..... 0.3-18 GHz: 1.8:1 MAXIMUM
- SWITCHING TIME  
   RISE (10% RF TO 90% RF) ..... 10 ns MAXIMUM, 5 ns TYPICAL  
   FALL (90% RF TO 10% RF) ..... 10 ns MAXIMUM, 5 ns TYPICAL  
   ON (50% TTL TO 90% RF) ..... 20 ns MAXIMUM  
   OFF (50% TTL TO 10% RF) ..... 20 ns MAXIMUM
- POWER HANDLING ..... 26 dBm MAXIMUM, 27 dBm TYPICAL
- POWER SUPPLY ..... +7VDC TO +18VDC  $\pm$ 5% 5 mA MAXIMUM  
   -7VDC TO -18VDC  $\pm$ 5% 5 mA MAXIMUM
- CONNECTORS  
   RF INPUT/OUTPUT ..... FIELD REPLACEABLE SMA (FEMALE)  
   POWER ..... SOLDER PIN  
   CONTROL ..... FIELD REPLACEABLE SMA (FEMALE)  
   NOTE: RF CONNECTORS CAN BE PLACED SIDE BY SIDE OR IN ANGLE.  
   (CONSULT FACTORY FOR AVAILABLE MECHANICAL OPTIONS)
- SIZE ..... 1.50" x 1.50" x 0.40"

# AVAILABLE OPTIONS

- BC ..... SPECIAL FOR BRETT COOPER
- A11 ..... SMA FEMALE CONTROL CONNECTOR

# 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

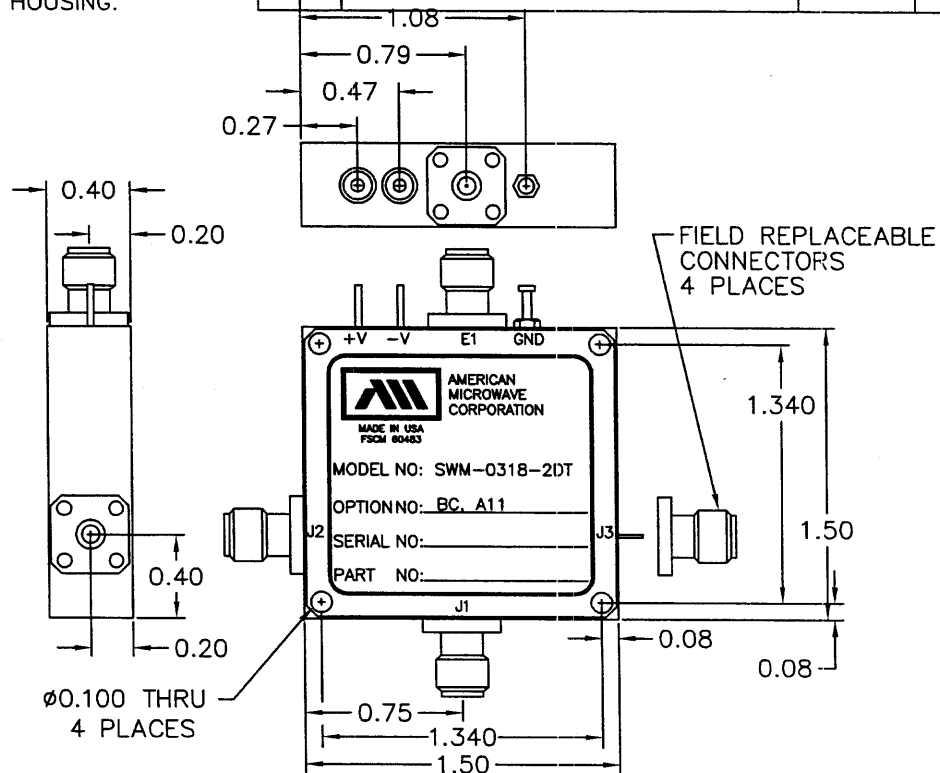
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
 NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**LOGIC TABLE**

E1	J1-J2	J1-J3
1	ON	OFF
0	OFF	ON

ALL DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 X.XX  $\pm$ 0.020  
 X.XXX  $\pm$ 0.010  
 WEIGHT: 1.5 oz.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	-	ORIGINAL RELEASE JOB# 409227	10/19/04	ESL



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APPROVALS		DATE		TITLE	
DRAWN 898		10/19/04		PRODUCT FEATURE SWM-0318-2DT	
CHECKED ESL				OPTION BC, A11	
ISSUED				0.3 TO 18 GHz, GaAs MMIC, NON-REFLECTIVE SPDT SWITCH	
		SIZE FSCM NO.		DWG NO.	
		A 60483		100-7156	
		SCALE N:S		SHEET 1 OF 3	