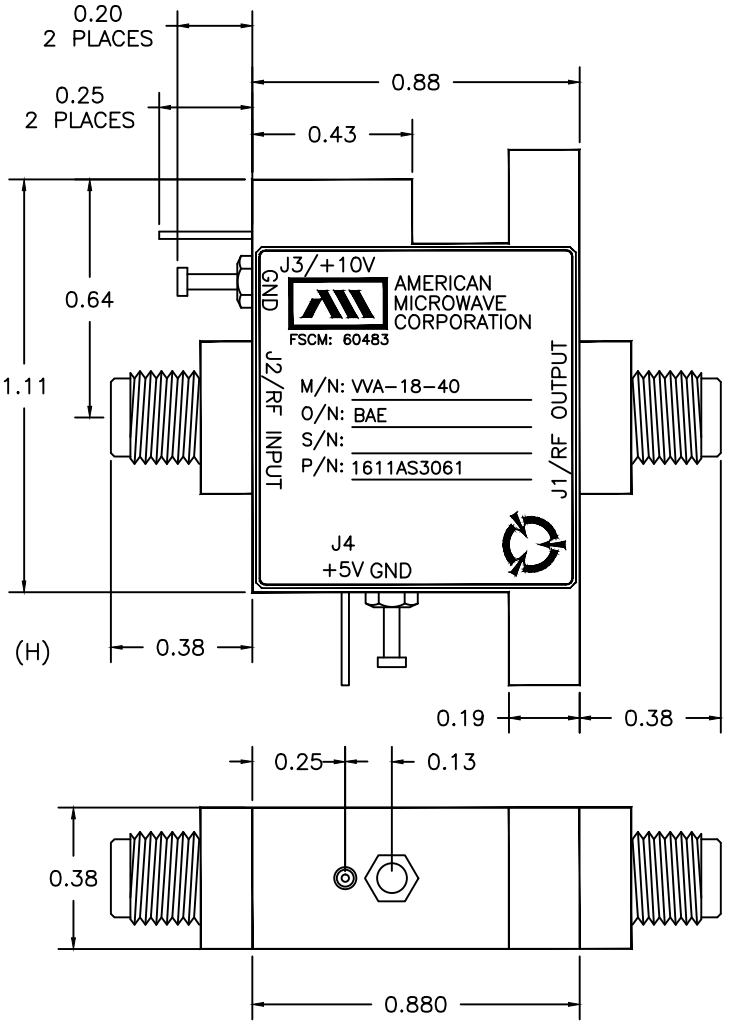
DESCRIPTION

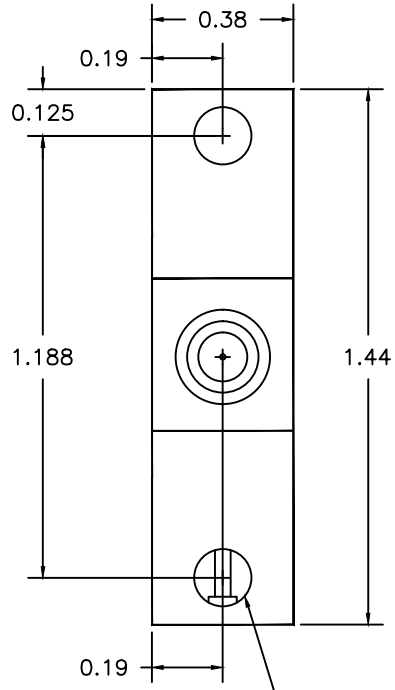
AMC MODEL VVA-18-40 OPTION: BAE IS A VOLTAGE CONTROLLED ATTENUATOR/MODULATOR, WITH 40 dB DYNAMIC RANGE.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	–	ORIGINAL RELEASE JOB # 006143E	08/22/00	

SPECIFICATIONS

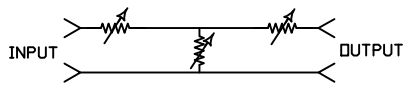
- FREQUENCY RANGE . . . . . 1–18 GHz MINIMUM
- INSERTION LOSS . . . . . 3.5 dB MAXIMUM
- ATTENUATION RANGE . . . . . 40 dB MINIMUM
- ATTENUATION CONTROL
  - +10 VDC . . . . . MINIMUM ATTENUATION
  - 0 VDC . . . . . FULL ATTENUATION
- SWITCHING TIME . . . . . 1 ms MAXIMUM
- VSWR (BOTH PORTS) . . . . . 2.5:1 MAXIMUM
- POWER RATINGS
  - OPERATING . . . . . +20 dBm MAXIMUM
  - SURVIVAL . . . . . +30 dBm MAXIMUM
- POWER SUPPLY . . . . . +5 VDC @ +5 mA MAXIMUM
- CONNECTORS
  - RF INPUT/OUTPUT . . . . . SMA SPARK PLUG
  - POWER AND CONTROLS . . . . . SOLDER TERMINALS
- SIZE . . . . . 1.11" (L) x 0.88" (W) x 0.38" (H)
- WEIGHT . . . . . 2.0 OUNCES TYPICAL





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

BLOCK DIAGRAM



ENVIRONMENTAL RATINGS

- **TEMPERATURE** . . . . . –40°C TO +85°C (OPERATING)
  –54°C TO +85°C (STORAGE)
- **HUMIDITY** . . . . . ATMOSPHERE CONTAINING 95% OR GREATER RELATIVE HUMIDITY AT TEMPERATURES RANGING FROM +28°C TO +85°C IN ACCORDANCE WITH MIL–T–5422.
- **SHOCK** . . . . . ACCELERATION PULSES AT 12 G LEVELS WITH A DURATION OF 11 ms IN ANY AXIS OR DIRECTION IN ACCORDANCE ACCORDANCE WITH MIL–T–5422, PART II.
- **VIBRATION** . . . . . 10 TO 2000 Hz AND 10 GRMS IN ACCORDANCE WITH MIL–STD–810 METHOD 514.3
- **ALTITUDE** . . . . . BAROMETRIC PRESSURE REDUCED TO THE EQUIVALENT OF 50,000 FEET ALTITUDE AND A TEMPERATURE OF –40°C.
- **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

PART NO.		
APPROVALS		DATE
DRAWN	WHS	08/22/00
REDRAWN	JDT	8/17/04
ISSUED		

AMERICAN MICROWAVE CORPORATION
FREDERICK, MARYLAND

TITLE
PRODUCT FEATURE
VVA–18–40
OPTION BAE
1 TO 18 GHz VOLTAGE CONTROLLED ATTENUATOR

SIZE	FSCM NO.	DWG NO.	REV.
A	60483	100–5664–2	–

SCALE N:S SHEET 1 of 3