

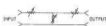
## DESCRIPTION

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

## 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  
(speeds of 100 ns also available)
- 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

### BLOCK DIAGRAM

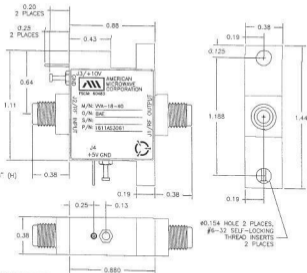


ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.00 .0020  
X.000 .0010

## 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 WITH MIL-T-5422, PART E.
- 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



APPROVALS		DATE	TITLE	
DESIGN	WCS	11/22/78	PRODUCT FEATURE	
PROGRAM	JDS	6/17/74	VVA-18-40	
ISSUE	14	9/5/79	OPTION BAE	
			1 TO 18 GHz VOLTAGE CONTROLLED ATTENUATOR	
SIZE	FORM NO.	60483	REV.	100-5864-2
MADE IN U.S.				SHEET 1 of 3

DATE	REV.	DESCRIPTION	BY	APPROVED
		ORIGINAL RELEASE JOB # 006143E	04/22/98	