

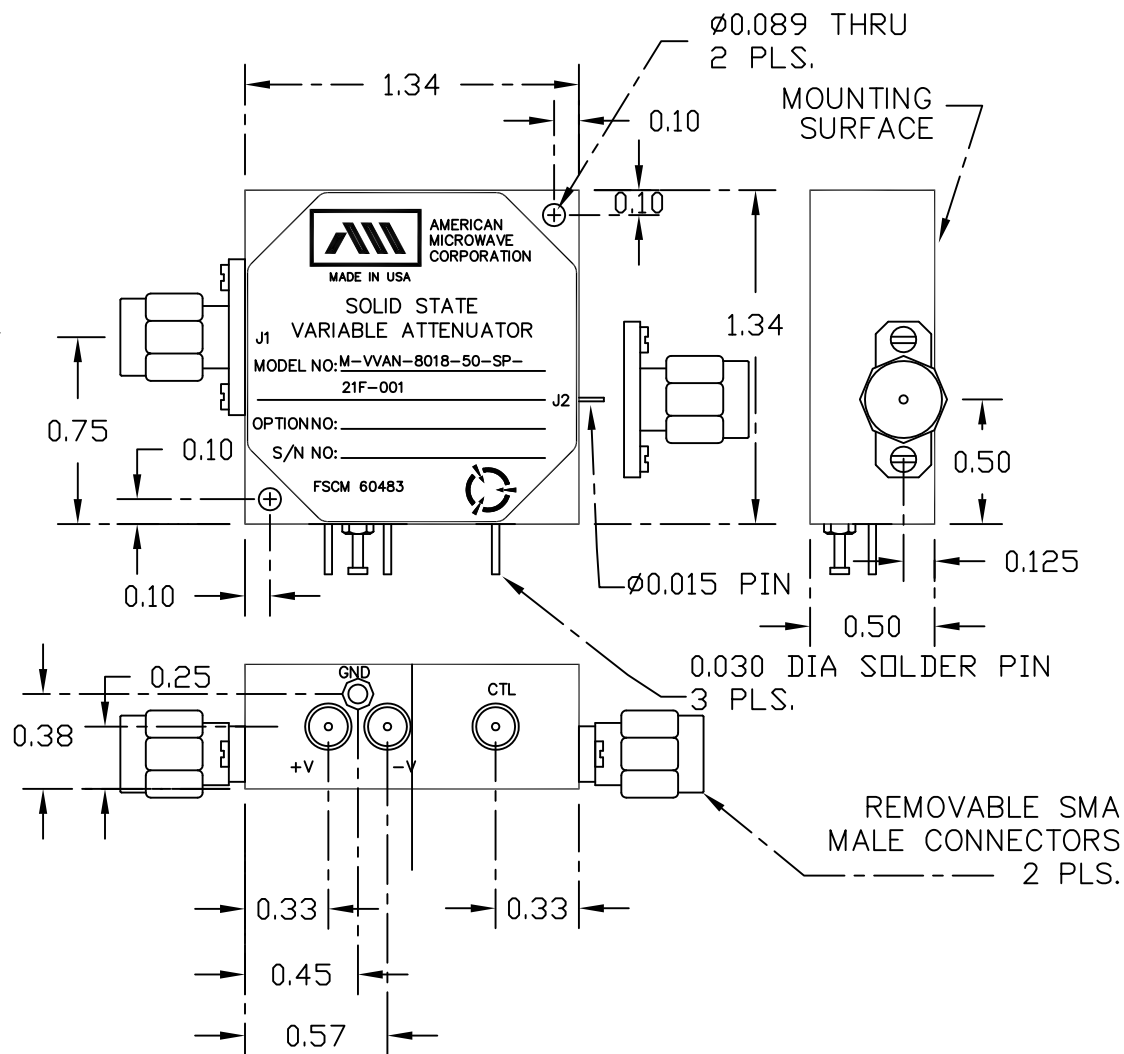
## DESCRIPTION:

AMC MODEL M-VVAN-8018-50-SP-21F-001 IS A MINIATURE VOLTAGE VARIABLE ATTENUATOR DESIGNED FOR OPERATION BETWEEN 21.0 AND 21.5 GHz WITH REMOVABLE SMA MALE CONNECTORS FOR SURFACE MOUNT APPLICATIONS.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL JOB# 312237	01/19/04	
	A	SEE ECN # 04-044	04/1/04	
	B	SEE ECN # 04-044	05/19/04	

## SPECIFICATIONS:

- FREQUENCY.....21.0 TO 21.5 GHz
- INSERTION LOSS.....5.0 dB MAX
- VSWR.....2.0:1
- TRANSFER FUNCTION.....10 dB/VOLT
- FLATNESS.....
  - @10 dB ±0.8
  - @20 dB ±1.1
  - @40 dB ±1.5
  - @50 dB ±1.6
- ACCURACY.....
  - 0-30 dB ±1 dB
  - 30-50 dB ±1.5 dB
- POWER SUPPLY.....+12V @ 150 mA MAXIMUM  
-12V @ 50 mA MAXIMUM
- CONTROL.....8-BIT POSITIVE TRUE BINARY
- CONNECTORS.....REMOVABLE SMA MALE
- SIZE.....1.34" X 1.34" X 0.5"
- WEIGHT.....≤3 OZ.



## ENVIRONMENTAL RATINGS:

- TEMPERATURE:
  - OPERATING:.....-55°C TO + 85°C
  - STORAGE:.....-65°C TO + 125°C
- HUMIDITY:.....MIL-STD-202F, METHOD 103B CONDITION B
- SHOCK:.....MIL-STD-202F, METHOD 312B CONDITION B
- VIBRATION:.....MIL-STD-202F, METHOD 204D CONDITION B
- ALTITUDE:.....MIL-STD-202F, METHOD 105C CONDITION B
- TEMPERATURE CYCLING:.....MIL-STD-202F, METHOD 107D CONDITION A

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

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

PART NO.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND		
APPROVALS	DATE	TITLE		
DRAWN <i>EFE</i>	01/19/04	PRODUCT FEATURE		
REDRAWN <i>JDJ</i>	8/17/04	M-VVAN-8018-50-SP-21F-001		
CHECKED		SIZE	FSCM NO.	DWG NO.
ISSUED		A	60483	100-6911
				REV. B
SCALE N: S				SHEET 1 OF 3