

ZONE		REV.	DESCRIPTION	DATE	APPROVED
A			ORIGINAL RELEASE	11/17/92	

## DESCRIPTION

AMC MODEL AGC-0510 IS AN ABSORPTIVE CURRENT CONTROLLED ATTENUATOR MODULE CAPABLE OF HANDLING 1W OF CW RF POWER OVER 0.5-1.0 GHz FREQUENCY BAND.

## SPECIFICATIONS

- FREQUENCY RANGE ..... 0.5-1.0 GHz MINIMUM
- INSERTION LOSS ..... 1.0 dB MAXIMUM
- VSWR ..... 1.7:1 MAXIMUM
- ATTENUATION FLATNESS ..... 0-10 dB  $\pm$ 0.5 dB MAXIMUM  
10-20 dB  $\pm$ 1.0 dB MAXIMUM  
20-40 dB  $\pm$ 1.5 dB MAXIMUM  
40-50 dB  $\pm$ 2.5 dB MAXIMUM

### ATTENUATION VS CURRENT TRANSFER FUNCTION

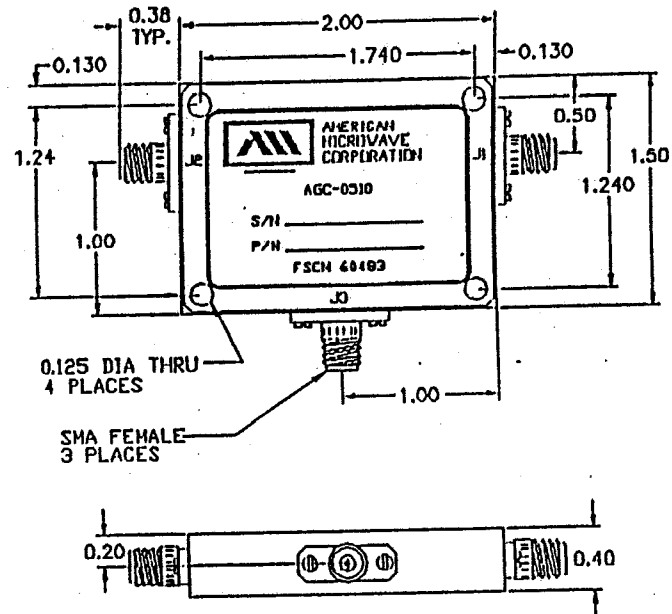
INSERTION LOSS AT 0 MA	
10 dB @	-0.28 mA (TYP)
20 dB @	-0.77 mA (TYP)
30 dB @	-1.68 mA (TYP)
40 dB @	-3.48 mA (TYP)
50 dB @	-7.94 mA (TYP)

- SWITCHING TIME  
RISE (10% RF TO 90% RF) ..... 150 nS MAXIMUM  
FALL (90% RF TO 10% RF) ..... 150 nS MAXIMUM
- RF POWER RATING ..... 1W CW, MAXIMUM
- CONNECTORS  
RF INPUT/OUTPUT ..... SMA (FEMALE)  
CONTROL ..... SMA (FEMALE)
- SIZE ..... 2.0" x 1.5" x 0.4"

## AVAILABLE OPTIONS

- A01 ..... ONE SMA MALE, ONE SMA FEMALE RF CONNECTORS
- A02 ..... 2 SMA MALE RF CONNECTORS
- A03 ..... SOLDER PIN CONTROL CONNECTOR
- A04 ..... SMC CONTROL CONNECTOR
- A05 ..... REVERSE CONTROL CURRENT (POSITIVE)

## MECHANICAL OUTLINE




### NOTES:

- 1) DIMENSIONS ARE IN INCHES
- 2) TOLERANCES: X.XX  $\pm$ 0.020  
X.XXX  $\pm$ 0.010
- 3) WEIGHT: APPROX. 4 OZ

## ENVIRONMENTAL RATINGS

- TEMPERATURE ..... -55°C TO + 95°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. C

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		<b>PRODUCT FEATURE</b> <b>AGC-0510</b> 0.50-1.0 GHz CURRENT CONTROLLED PIN DIODE ATTENUATOR		
APPROVALS	DATE	SIZE	SHEET	DWG. #
DRAWN <i>W.S.P.</i> CHECKED <i>C.M.W.</i>	11/17/92 10/24/92	A	1 OF 2	100-7430