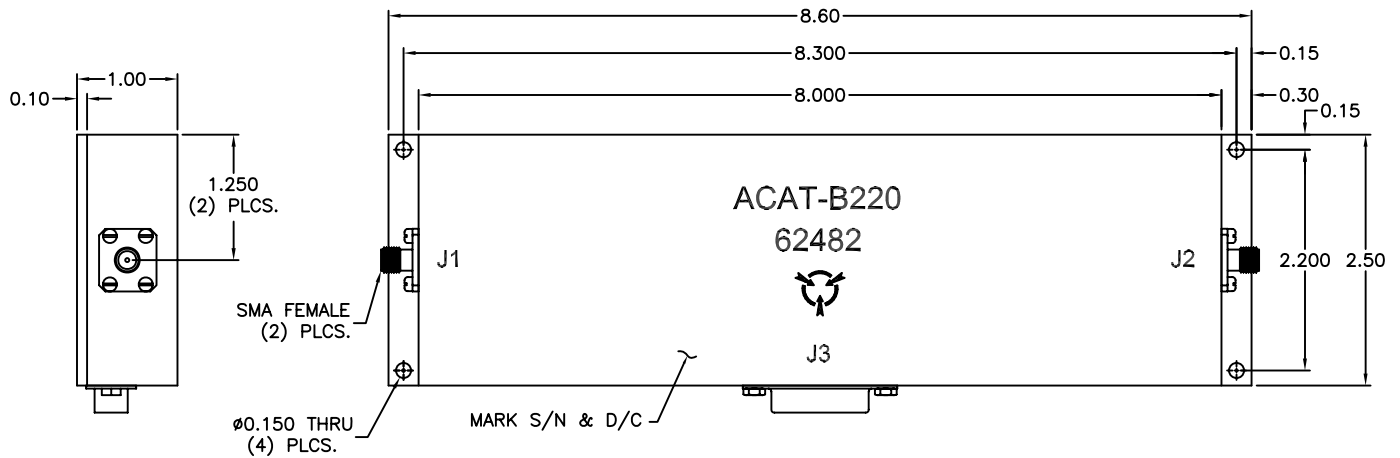




PRODUCT SPECIFICATION  
PART NUMBER: ACAT-B220  
DESCRIPTION: ATTENUATOR, DIGITAL, 6-BIT, 63 dB

FREQUENCY RANGE: DC - 100 MHz MIN.  
 INSERTION LOSS: 3.0 dB MAX.  
 VSWR: 1.6 : 1 MAX. (50 OHM)  
 ATTENUATION ACCURACY: ± 0.3 dB MAX. (0 - 31 dB RANGE)  
 ± 0.75 dB MAX. (32 - 63 dB RANGE)  
 ATTENUATION FLATNESS: ± 0.5 dB MAX. (0 - 31 dB RANGE)  
 ± 0.75 dB MAX. (32 - 63 dB RANGE)  
 ATTENUATION RANGE: 63 dB  
 SWITCHING SPEED: 100 nSEC MAX.  
 POWER, OPERATING: +10 dBm MAX.  
 DC BIAS: +5V @ 20 mA MAX.  
 -15V @ 20 mA MAX.  
 ATTENUATION CONTROL: TTL 0 = LOW LOSS, TTL 1 = ATTENUATION  
 E1 = 1 dB (LSB)  
 E2 = 2 dB  
 E3 = 4 dB  
 E4 = 8 dB  
 E5 = 16 dB  
 E6 = 32 dB (MSB)  
 TEMP. RANGE:  
 (OPERATING): -20°C TO +75°C  
 (STORAGE): -40°C TO +85°C  
 BIAS AND CONTROL: 15 PIN D-SUB CONNECTOR  
 RF CONNECTORS: SMA FEMALE  
 FINISH: CHEM-FILM PER MIL-C-5541

REV.	DESCRIPTION	DATE	APP'D
-	INITIAL RELEASE	3/27/02	CP
A	UPDATED SPEC.	6/14/02	RG
B	UPDATED SPEC.	3/24/05	CP



PIN NUMBER	FUNCTION
1	E1 (1 dB)
2	E2 (2 dB)
3	E3 (4 dB)
4	E4 (8 dB)
5	E5 (16 dB)
6	E6 (32 dB)
7	(N/C)
8	(N/C)
9	N/C
10	N/C
11	N/C
12	N/C
13	+5V
14	GND
15	-15V

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**CAUTION**  
UNLESS THIS DRAWING BEARS AUTHORIZED SIGNED APPROVAL(S) IT IS PRELIMINARY AND IS NOT TO BE USED FOR MANUFACTURING PURPOSES.

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ON FINISH: RMS 63  
ANGLES: ±1/2° FRACTIONS: ±1/64  
4 PLACE DECIMALS: ±.0005  
3 PLACE DECIMALS: ±.005  
2 PLACE DECIMALS: ±.01

DRAWN BY: C PERRONE 3/27/02  
APPROVED BY: R. GALLI 3/27/02  
SHEET: 1 OF 1  
FILECODE: ACAT-B220