

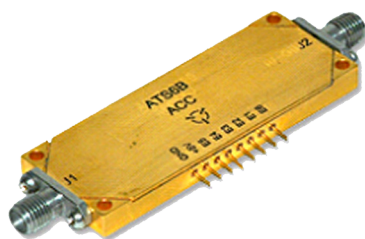
ATS6B

Digital Attenuators

6 BIT

Applications

- EW Systems
- Communications Systems
- Automatic Gain Control
- Test Equipment
- Electronic Simulators
- Leveling Circuits



Specifications:

| Parameter | Specification | Units |
|-----------------------|---------------|-------|
| Frequency Range (min) | 2.0 – 4.0 | GHz |
| Total Attenuation | 63.0 | dB |
| LSB | 1.0 | dB |
| MSB | 32.0 | dB |
| Insertion Loss (Max) | 3.7 | dB |
| VSWR (Max) | 1.7 | Ratio |

Mechanical Specifications:

Case Style: AT Outline
 Finish: Gold Plate per MIL-G-45204
 Bias & Control Pins: $\varnothing 0.02'' \times 0.15''$ long
 Connectors: SMA Female per MIL-C-39012
 Weight: 19g max
 Mounting: $\varnothing 0.10''$ through holes
 (4) places

Environmental Specifications:

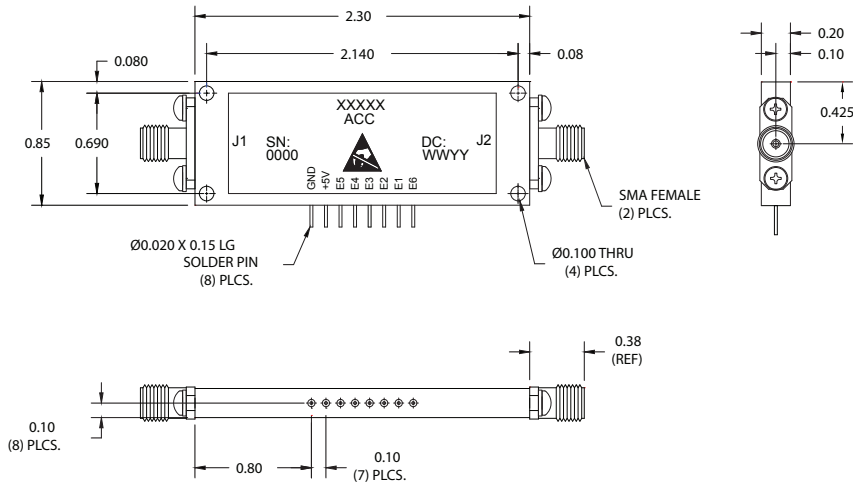
Designed to meet:
 MIL-E-5400, MIL-STD-202, MIL-E-16400
 Operating Temp: -55°C to +85°C
 Storage Temp: -65°C to +125°C
 Humidity: MIL-STD-202F, M103, Cond B
 Shock: MIL-STD-202F, M213, Cond B
 Altitude: MIL-STD-202F, M105, Cond B
 Vibration: MIL-STD-202F, M204, Cond B
 Thermal Shock: MIL-STD-202F, M107, Cond A
 Temperature Cycle: MIL-STD-202F, M105C, Cond D

Screening:

Internal Visual per MIL-STD-883, Method 2017
 Temperature Cycle: -65 °C to +100 °C, 10 cycles
 Hermetically-sealed switches are fine and gross leak checked per MIL-STD-883, Method 1014.
 Optional High-Rel screening available upon request. Contact the factory to discuss your screening requirements.

Additional Electrical Specifications:

DC Bias: +5V $\pm 0.5V$ @ 190mA max
 Switching Speed: 250nsec max(50%TTL-90%RF)
 75nsec max (50%TTL-10%RF)
 175nsec max (10%RF-90%RF)
 25nsec max (90%RF-10%RF)
 Operating RF Power: 1W CW max
 Attenuation Accuracy: ± 0.4 dB (0-20dB attenuation)
 $\pm 2\%$ (above 20dB attenuation)
 Attenuation Flatness: ± 0.5 dB max
 Logic Control: TTL 0 = Low Loss
 TTL 1 = Attenuation



OUTLINE CASE STYLE AT

| Part Number | E1 | E2 | E3 | E4 | E5 | E6 |
|-------------|-------|-------|-------|-------|--------|--------|
| ATS6B | 1.0dB | 2.0dB | 4.0dB | 8.0dB | 16.0dB | 32.0dB |

Part Number Ordering Information:

- ATxxx: Standard version
- ATxxx-RC: RoHS-compliant
- ATxxx-H: Hermetic seal

Custom Options – Contact the Factory

- Gray epoxy paint per MIL-C-22750
- Video transient suppression
- GPO connectors
- ECL logic input
- Phase-free
- Other frequency ranges available from 1MHz to 26GHz
- Reversed logic
- Available without SMA connectors for drop-in applications
- High-rel screening

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ISO 9001:2008 certified



Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.