

KDI **ELECTRONICS, INC.**
Pyrofilm & Engelmann Divisions

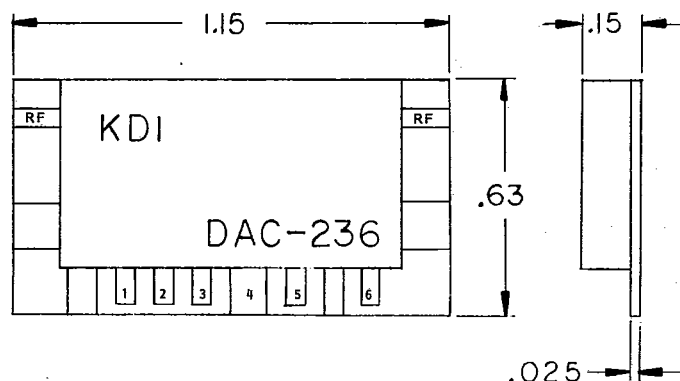
Technical Bulletin



DAC 236

THICK FILM DIGITAL ATTENUATOR 3 BITS

- Internal TTL Drivers
- 1.0 GHz to 4.0 GHz
- Drop In Package
- Epoxy Seal (2×10^{-7} Leak Rate)



GENERAL SPECIFICATIONS

Frequency Range: 1.0 GHz to 4.0 GHz

Attenuation Range: 0 to 30 dB

Bit 1: 6 dB

Bit 2: 12 dB

Bit 3: 12 dB

Attenuation Accuracy: Any 1 Bit ± 0.5 dB
Any Combination ± 1.0 dB

Insertion Loss: 2.0 dB Typical
2.5 dB Maximum

VSWR: 1.3 Typical
1.5 Maximum

Switching Speed: 200 ns Maximum (measured between 50% logic and 90% RF output)

Logic: TTL Compatible 1 Gate Load Max.
Logic 1 = Bit Enable

RF Power Input: 10 dbm Max for specified performance
20 dbm Max for operation

Power Supply: ± 5 V at ± 150 ma Maximum

Operating Temperature: -55° C to $+85^{\circ}$ C

Fine Leak Rate: 2×10^{-7} (ATM cc/sec He)

PIN #	FUNCTION
1	12 dB Control
2	-5 VDC
3	6 dB Control
4	Ground
5	12 dB Control
6	+5 VDC