

THICK FILM ATTENUATORS, DIGITAL DROP-IN – REMOVABLE SMA 0.8–2 GHz

DAD SERIES

GENERAL INFORMATION

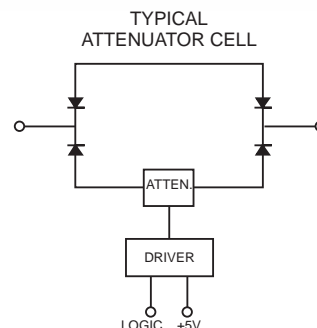
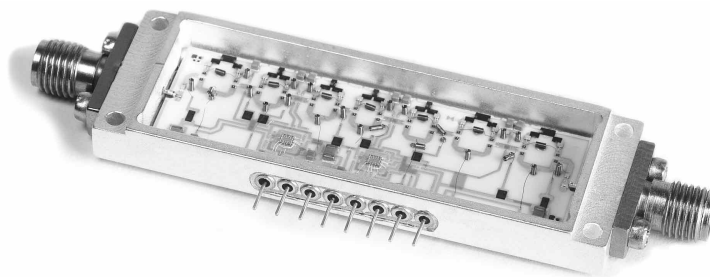
The DAD Series of Precision Digital Attenuators utilize Thick Film Technology for all microwave and logic functions. All conductors, attenuator elements and bias resistors are screened on a single alumina substrate to achieve increased reliability and enhanced performance. All additional circuit elements including pin diodes, integrated circuits, capacitors, and coils are bonded directly to the Thick Film. Customized driver circuits are integrated on the RF substrate.

FEATURES

- Removable SMA Connectors
- Internal T²L Drivers
- Thick Film
- Accuracy $\pm 1/2$ LSB

GENERAL SPECIFICATIONS

Frequency Range:	0.8-2 GHz
RF Impedance:	50 Ohms
DC Power:	5V ± 0.5 at 40ma/Bit
Logic:	T ² L
Driver:	Integrated on RF Substrate
Attenuation Range:	0 to 63 dB
Accuracy:	± 0.5 LSB
RF Power:	+10 dBm Operating +20 dBm Survivability
Operating Temperature:	-40°C to +70°C
Storage Temperature:	-55°C to +85°C
Switching Speed:	100 nsec Typ; 125 nsec maximum
Package:	Aluminum, Silver Plated



TYPICAL MODEL NO.
DAD - 125 - 05**
Basic Series Freq. # Bits LSB

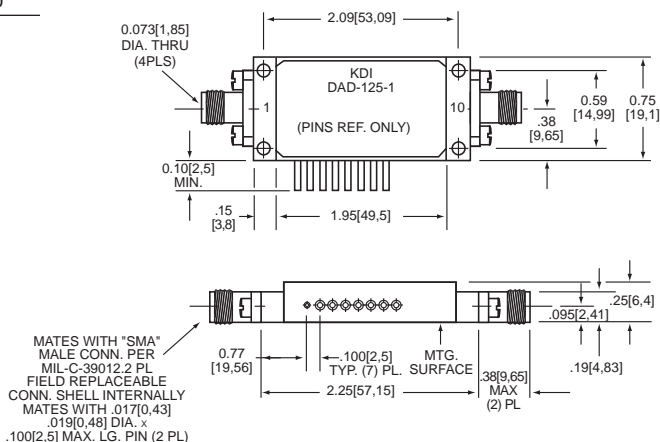
ELECTRICAL PERFORMANCE

Part No.	Frequency GHz	LSB # of Bits	MSB dB	Ins Loss dB	VSWR Maximum	Power Supply mA	Phase Degrees
DAD-125-05	0.8-2	5	0.5	32	4.0	1.5	15°

LOGIC & RF CONNECTIONS

Part No.	1, 10	2	3	4	5	6	7	8	9
DAD-125-05	RF	GND	8 dB	4 dB	2 dB	1 dB	.5 dB	N/C	+5V
- 1	RF	GND	16 dB	8 dB	4 dB	2 dB	1 dB	N/C	+5V
- 2	RF	GND	16 dB	8 dB	4 dB	2 dB	N/C	32 dB	+5V

REMOVABLE SMA CONNECTORS



KEY: Inches[Millimeters] .XX \pm .03 .XXX \pm .010 [.X \pm 0.8 .XX \pm 0.25]



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