Product Specification Summary Miniature Digitally-Controlled, High-Speed 63-dB Attenuators

The DCA Series 63-dB digitally-controlled attenuators combine fast switching speed, full monotonicity, and best-in-class power consumption. The DCA series includes 2-b, 3-b, and 6-b models in frequency ranges of DC to 6 GHz or DC to 18 GHz.

They consume only 50 mW from \pm -5 VDC power supplies and settle to within 98% of their final value in 90 ns or less, and have resolution, and typical step accuracy of \pm -0.25 dB.

The miniature attenuators measure 2.2 x 0.84×0.38 in. and weigh 1.1 oz. Standard operating frequency is up to 18 GHz and custom versions are available. Components such as filters and active and passive components can be integrated to form a multi-function module that will occupy less space than a design fabricated with conventional MIC techniques.

DCA Series

Key features/applications

- Designed for use when optimum performance must be combined with very small size and low power consumption
- 2-b, 3-b, and 6-b versions
- DC to 6 GHz or DC to 18 GHz IF bandwidth of 70 MHz +/18 MHz
- Measure 2.2 x 0.84 x 0.38 in. and weigh 1.1 oz
- Guaranteed monotonicity over full attenuation range
- P1dB RF output power of more than +15 dB +/-0.15 dB
- Filters and other active and passive components can be integrated to form multi-function module
- Custom versions available
- Optional hermetic sealing and temperature range of -55° C to +95° C suit aerospace and defense applications.

Versions	2-b, 3-b, 6-b
Attenuation range (dB)	0 to 63 in 1-dB steps
Frequency range (GHz)	DC to 6, DC to 18
Resolution (dB)	+/-0.25
Settling time, 20% to 90% of final	Less than 100, 30 typical
value, (ns)	
Least significant bit	1
Operating temperature range (°C)	-55 to +95
Power supply (VDC)	+5, -5
Power consumption (mW)	50 maximum
Dimensions (in.)	2.2 x 0.84 x 0.38
Weight (1.1)	1.1





Please consult the factory for detailed product specifications.



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