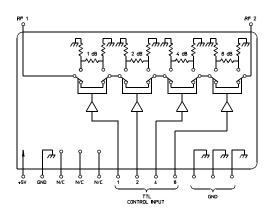
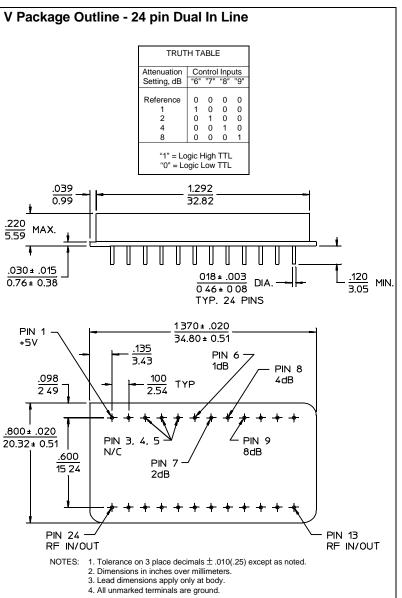
50 to 1500 MHz / 0 to 15 dB in 1 dB Steps / 4-Bit Direct TTL Control / Monotonic / +5V Supply







GENERAL SPECIFICATIONS

50 - 1500 MHz Frequency Range: Attenuation Range: 0 - 15 dB

Minimum Step Size: 1 dB

Attenuation Flatness: \pm 0.5 dB/bit max.

 \pm 1.0 dB max

Attenuation Accuracy: \pm 0.5 dB at f_o Insertion Loss: 4 dB max. Phase Variation: \pm 10° typ. VSWR: 1.7:1 max. Impedance: 50Ω nom. Switching Delay Time: 2 μs typ.

(50% control transition to 10/90% RF) 20 mV typ. Switching Transients: (50% control transition to 10/90% RF)

Bias Requirement: +5 VDC

@ 80 mA nom.

Input Intercept Point: +32 dBm typ. Input Power: 0.25 W max. Weight, nominal: 0.4 oz (11 g) - 55° to +85°C Operating Temperature:

Typical Performance 8 Loss NSERTION 10 20 50 100 200 500 1000 2000 20 50 100 200 500 1000 2000 FREQUENCY IN MHz FREQUENCY IN MHz

General Notes:

1. The ADS-41V-1000 is constant impedance, 4-bit digital attenuator covering 50 to 1500 MHz and driven directly by TTL logic. PIN diode switched attenuator pads are activated by Advanced Fact[™] C-MOS, TTL compatible logic drivers, allowing high speed operation without need of a negative supply.

2. Careful design of thick film resistive pads and detailed selection of suitable PIN diodes provide a wide bandwidth with minimal phase shift. 25Mar96