

## FEATURES

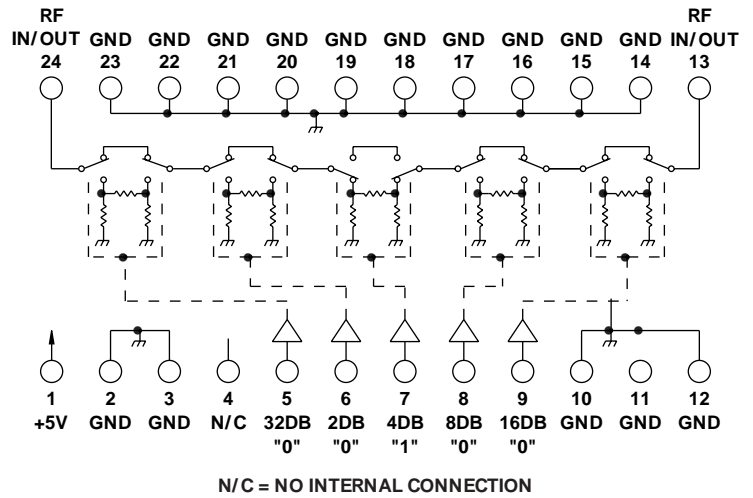
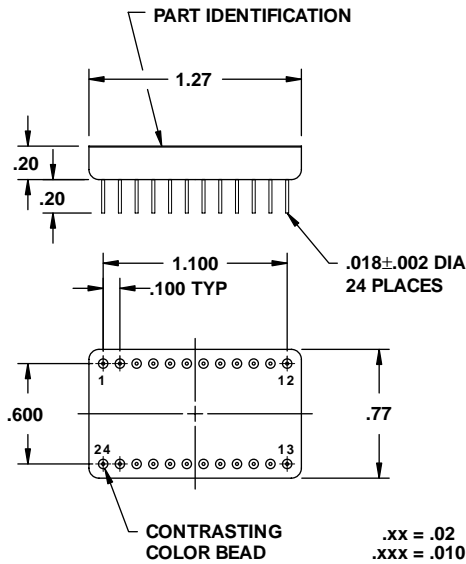
- 10 - 1000 MHz
- 1 mA, +5 VDC
- 2 dB LSB, 62 dB Range
- 38 nSec Switching Speed
- 12 nSec Transition Time
- TTL Control
- 24 Pin DIP
- See DA0757 for Surface Mount Version



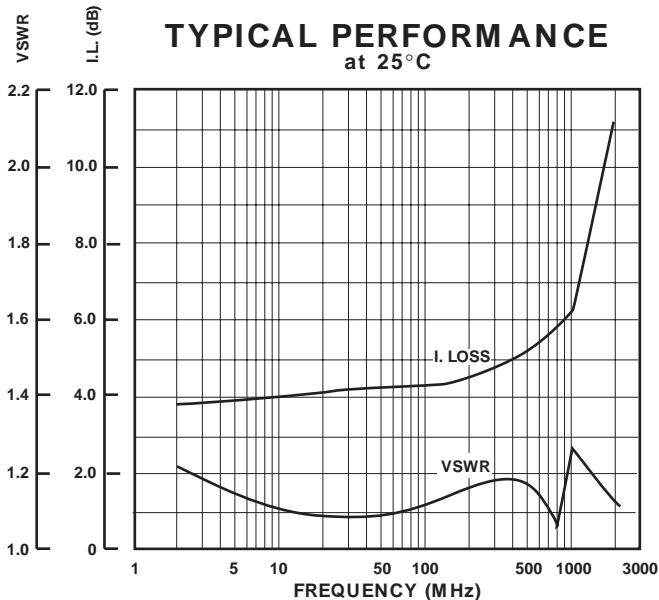
**MODEL NO.  
DA0857**

**GaAs 5 Section Attenuator**

**5 BIT**



## GUARANTEED PERFORMANCE



| Parameter                    | Min                      | Typ        | Max        | Units | Conditions   |
|------------------------------|--------------------------|------------|------------|-------|--|
| Operating Frequency          | 10                       |            | 1000       | MHz   |  |
| DC Current                   |                          | 1          | 5          | mA    | At +5 VDC Supply   |
| Control Type                 |                          | TTL        |            |       | 5 Line<br>Logic "0" = Thru<br>Logic "1" = Attenuation          |
| Control Current              | High<br>Low              | 0<br>0     | ±40<br>±40 | µA    | VIH = +3.0 V<br>VIL = +0.5 V                                   |
| Insertion Loss               |                          | 4.0<br>5.6 | 5.2<br>7.0 | dB    | 10 - 100 MHz<br>100 - 1000 MHz                                 |
| Attenuation                  | LSB<br>Range<br>Accuracy | 0          | 2<br>62    | dB    | 2, 4, 8, 16, 32<br>± (0.25 dB ± 2% of Atten.<br>Setting in dB) |
| VSWR                         |                          | 1.2/1      | 1.4/1      |       |  |
| Impedance                    |                          | 50         |            | OHMS  |  |
| Switching Speed              |                          | 32         | 50         | nSec  | 50% TTL to 90% / 10% RF  |
| Transition (Rise/Fall) Time  |                          | 18         |            | nSec  | 90% / 10% or 10% / 90% RF                                      |
| Switching (Video) Transients |                          | 215        |            | mV    | Peak Value   |
| Intercept Points             | 2nd<br>3rd               | +65<br>+44 |            | dBm   | 70 MHz / 50 MHz<br>35 MHz / 50 MHz                             |
| RF Power                     | Operate<br>No Damage     | +13        | +10<br>+27 | dBm   | 0.1 dB Compression   |
| Operating Temperature        | -55                      | +25        | +125       | °C    | TA   |