

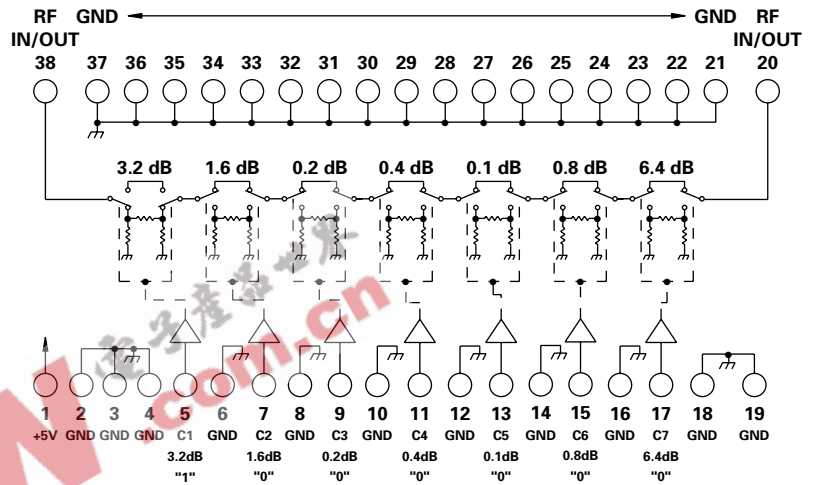
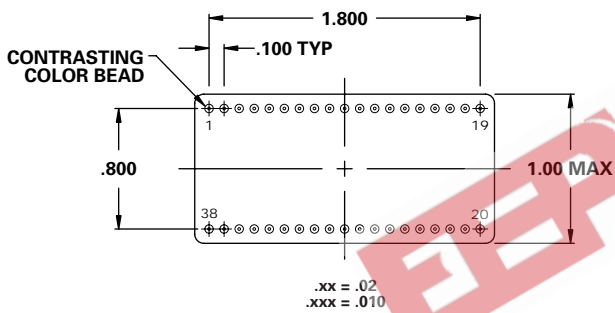
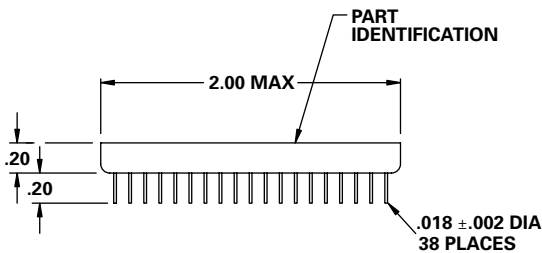
## FEATURES

- 10 - 150 MHz
- 20 nSec Switching Speed
- 3.5 dB Insertion Loss
- 0.1 dB LSB, 12.7 dB Range
- TTL Control
- See DA0775 for Surface Mount Version



MODEL NO.  
DA0375

Schottky Diode  
7 Section Attenuator



## GUARANTEED PERFORMANCE

| Parameter                    | Min                      | Typ        | Max         | Units | Conditions  |    |
|------------------------------|--------------------------|------------|-------------|-------|---|----|
| Operating Frequency          | 10                       |            | 150         | MHz   |   |    |
| DC Current                   |                          | 390        | 540         | mA    | At +5 VDC Supply  |    |
| Control Type                 |                          | TTL        |             |       | 7 Line<br>Logic "0" = Thru<br>Logic "1" = Attenuation   |    |
| Control Current              | High<br>Low              |            | 25<br>-200  | μA    | V <sub>IH</sub> = +2.7 V<br>V <sub>IL</sub> = +0.5 V  |    |
| Insertion Loss               |                          | 3.5        | 4.0         | dB    | 45 - 75 MHz (±0.5 dB)<br>10 - 150 MHz   |    |
| Attenuation                  | LSB<br>Range<br>Accuracy | 0          | 0.1<br>12.7 | dB    | 0.1, 0.2, 0.4, 0.8, 1.6, 3.2, 6.4<br>0.1 dB to 0.9 dB: ± (0.05 dB<br>+15% of Atten. Setting in dB)<br>1.0 dB to 12.7 dB: ± (0.15 dB<br>+2% of Atten. Setting in dB) |    |
| VSWR                         |                          | 1.15/1     | 1.35/1      |       |   |    |
| Impedance                    |                          | 50         |             | OHMS  |   |    |
| Switching Speed              |                          | 20         | 35          | nSec  | 50% TTL to 90% / 10% RF   |    |
| Transition (Rise/Fall) Time  |                          | 7          |             | nSec  | 90% / 10% or 10% / 90% RF   |    |
| Switching (Video) Transients |                          |            | 0.5         | V     | Peak Value  |    |
| Intercept Points             | 2nd<br>3rd               | +93<br>+36 |             | dBm   | MHz   |    |
| RF Power                     | Operate<br>No Damage     | +15<br>+20 | +10<br>+20  | dBm   | 0.1 dB Compression  |    |
| Operating Temperature        |                          | -55        | +25         | +85   | °C  | TA |

## TYPICAL PERFORMANCE

at 25 °C

