

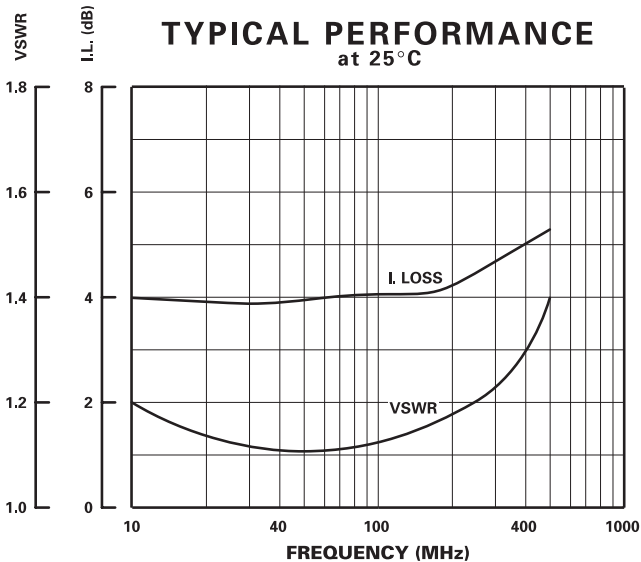
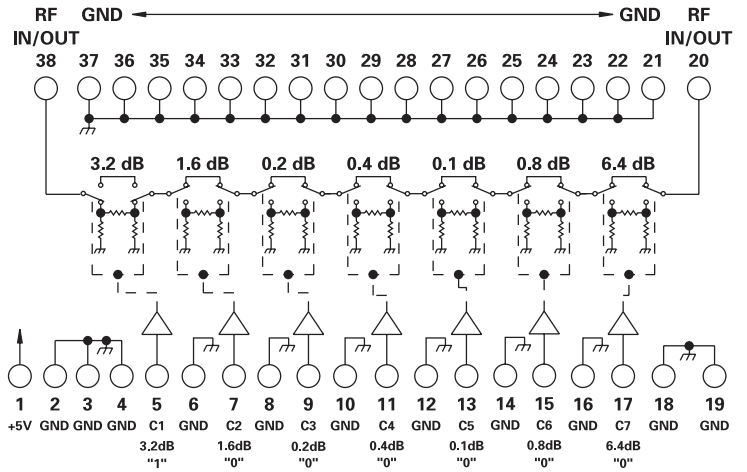
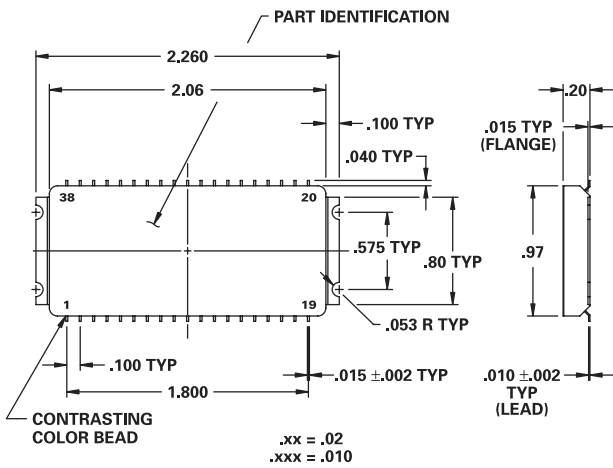
# MODEL NUMBER DA0775

# Schottky Diode 7 Section Attenuator

## FEATURES

- 30-150 MHz
- 25 nSec Switching Speed
- 4 dB Insertion Loss
- 0.1 dB LSB, 12.7 dB Range
- TTL Control
- 38 Pin Surface Mount Package

## 7 BIT



## GUARANTEED PERFORMANCE

| Parameter                    | Min                      | Typ        | Max         | Units      | Conditions  |
|------------------------------|--------------------------|------------|-------------|------------|---|
| Operating Frequency          | 30                       |            | 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              | 0<br>-0.06 | 25<br>-200  | μA         | V <sub>IH</sub> = +2.7 V<br>V <sub>IL</sub> = +0.5 V  |
| Insertion Loss               |                          | 4.0        | 5.0         | dB         |   |
| Attenuation                  | LSB<br>Range<br>Accuracy | 0          | 0.1<br>12.7 | dB<br>dB   | 0.1, 0.2, 0.4, 0.8, 1.6, 3.2, 6.4<br>0.1 dB to 0.9 dB:<br>±(0.05 dB +15% of Atten. Setting in dB)<br>1.0 dB to 12.7 dB:<br>±(0.15 dB +2% of Atten. Setting in dB) |
| VSWR                         |                          | 1.15/1     | 1.35/1      |            |   |
| Impedance                    |                          | 50         |             | OHMS       |   |
| Switching Speed              |                          | 25         | 35          | nSec       | 50% TTL to 90% / 10% RF   |
| Transition (Rise/Fall) Time  |                          | 7          |             | nSec       | 90% / 10% or 10% / 90% RF   |
| Switching (Video) Transients |                          |            | 500         | mV         | Peak Value  |
| Intercept Points             | 2nd<br>3rd               | 93<br>36   |             | dBm<br>dBm | 40 MHz / 30 MHz<br>55 MHz / 40 MHz  |
| RF Power                     | Operate<br>No Damage     | +15<br>+20 | +10<br>+20  | dBm<br>dBm | 0.1 dB Compression  |
| Operating Temperature        |                          | -55        | +25         | +85        | °C<br>TA  |