

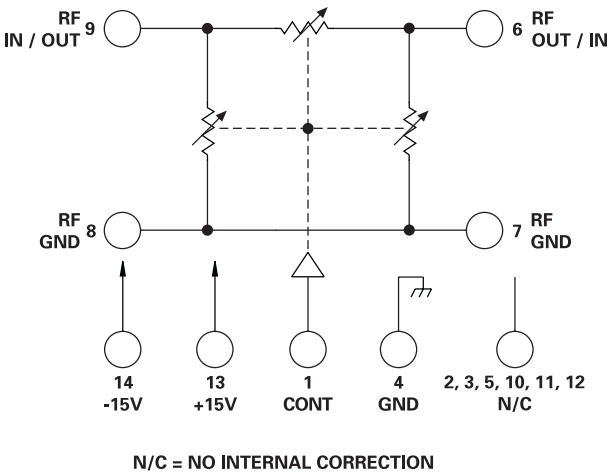
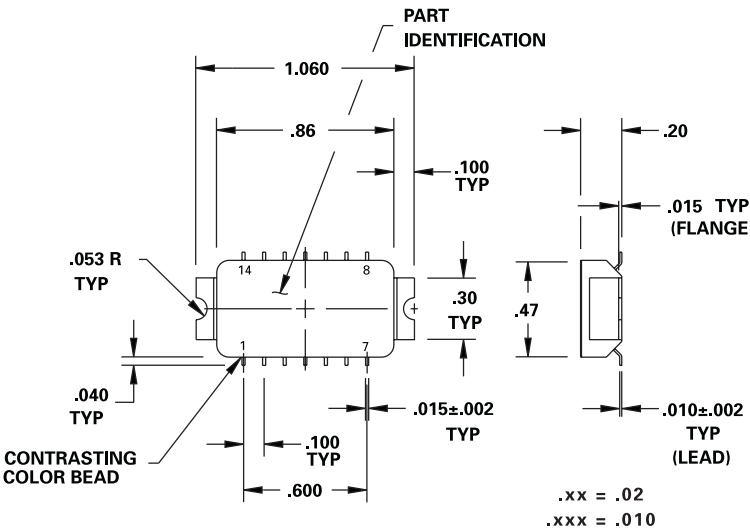
# MODEL NUMBER DA0735

# PIN Diode Linear VCA

## FEATURES

- 20-300 MHz
- 20 dB Linear Range Typical
- $\pm 0.8$  dB Linearity
- +47 dBm 3rd Order Intercept
- 0.8 dB Insertion Loss
- See DA0035 For 14 Pin DIP Version
- See 100C0911 For Connectorized Version

## VCA



## GUARANTEED PERFORMANCE

| Parameter             | Min                         | Typ        | Max        | Units            | Conditions   |
|-----------------------|-----------------------------|------------|------------|------------------|--|
| Operating Frequency   | 20                          |            | 300        | MHz              |  |
| DC Current            |                             | 30<br>40   | 60<br>60   | mA               | At +15 VDC Supply<br>At -15 VDC Supply             |
| Control Current       |                             |            | 1          | mA               | 0 V to +5 V Control                                |
| Insertion Loss        |                             |            | 0.8<br>1.5 | dB               |  |
| Attenuation           | Range<br>Slope<br>Linearity | 18<br>5    | 20<br>6.5  | dB<br>dB/V<br>dB | Best Straight Line Fit From<br>IL +1.5 dB to 18 dB |
| VSWR                  |                             | 1.1/1      | 1.4/1      |                  |  |
| Impedance             |                             | 50         |            | OHMS             |  |
| Slew Rate             |                             | 6          |            | dB/μs            |  |
| Intercept Points      | 2nd<br>3rd                  | +97<br>+47 |            | dBm<br>dBm       | 70 MHz / 50 MHz<br>35 MHz / 50 MHz                 |
| RF Power              | Operate<br>No Damage        |            | +10<br>+20 | dBm<br>dBm       |  |
| Operating Temperature | -55                         | +25        | +85        | °C               | TA   |

