

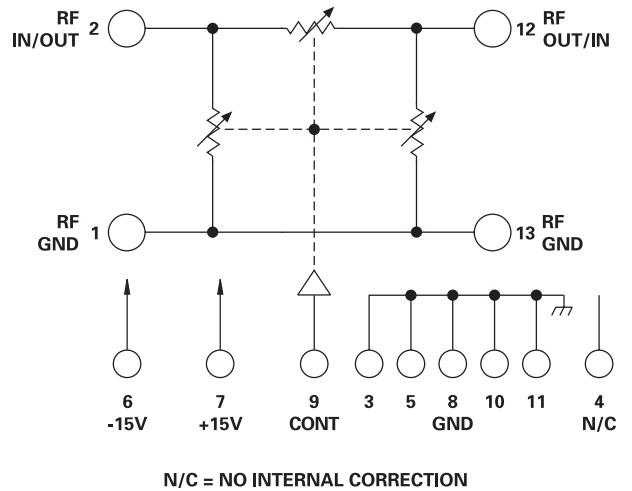
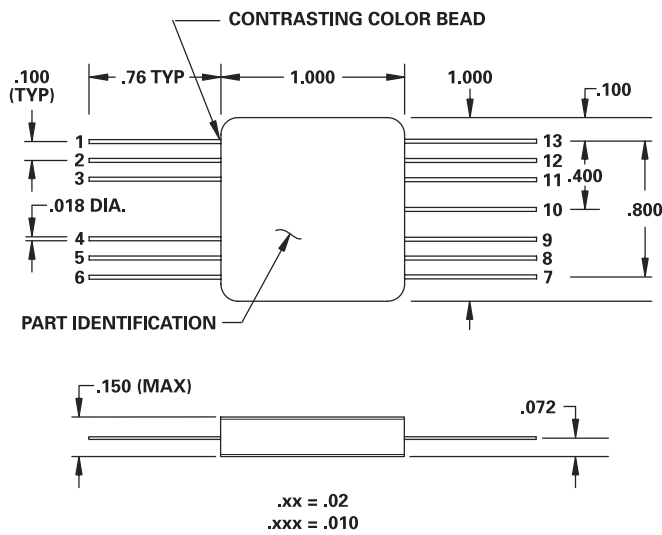
MODEL NUMBER DA0243

PIN Diode Linear VCA

FEATURES

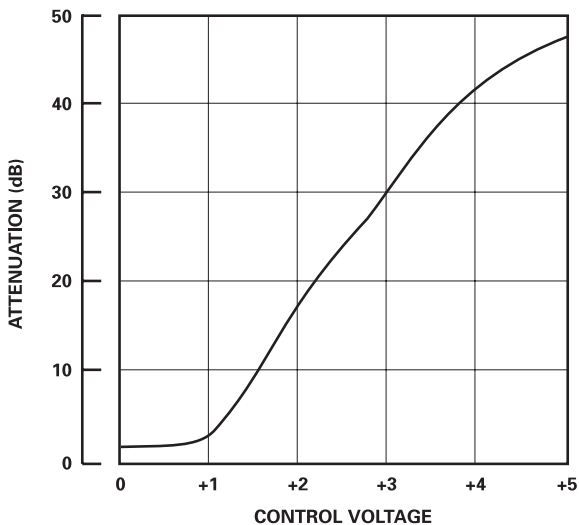
- 50-1300 MHz
- 40 dB Range
- 1.3 dB Insertion Loss
- ± 2 dB Linearity
- See 100C1521 For Connectorized Version

VCA



TYPICAL PERFORMANCE

Attenuation vs Control Voltage
at 500 MHz



GUARANTEED PERFORMANCE

| Parameter | Min | Typ | Max | Units | Conditions |
|-----------------------|-----------|-----|------------|--------------|--|
| Operating Frequency | 50 | | 1300 | MHz | |
| DC Current | | 60 | 65 | mA | At +15 VDC Supply |
| | | 80 | 110 | mA | At -15 VDC Supply |
| Control Current | | | 1 | mA | 0 V = I.L. +5 V = Max. Atten. |
| Insertion Loss | | | 2.0 | dB | 50 - 500 MHz |
| | | | 3.0 | dB | 500 - 1100 MHz |
| | | | 3.5 | dB | 1100 - 1300 MHz |
| Attenuation | Range | 40 | | dB | 50 - 500 MHz |
| | | 30 | | dB | 500 - 1100 MHz |
| | | 25 | | dB | 1100 - 1300 MHz |
| | Slope | | 13 \pm 3 | dB/V | |
| | Linearity | | \pm 2 | dB | Best Straight Line Fit From: IL +2 dB to 35 dB at 50 - 500 MHz IL +2 dB to 25 dB at 500 - 1100 MHz IL +2 dB to 20 dB at 1100 - 1300 MHz |
| VSWR | | | 1.25/1 | | 50 - 500 MHz |
| | | | 1.50/1 | | 500 - 1300 MHz |
| Impedance | | 50 | | OHMS | |
| Slew Rate | | | 3 | dB/ μ s | |
| Intercept Points | 2nd | +80 | | dBm | |
| | 3rd | +35 | | dBm | |
| RF Power | Operate | | +10 | dBm | |
| Operating Temperature | -55 | +25 | +85 | $^{\circ}$ C | TA |