TEMPERATURE VARIABLE ATTENUATORS FOR COMMERCIAL APPLICATIONS

Ultimate design flexibility in the same footprint

- Inventors of the temperature variable attenuators
- Over 40 years of attenuator experience
- For Telecom and WiMax applications
- Performance and price leaders
- RoHS compliant design
- Totally passive – no signal distortion
- Designed for high volume, pick & place
- Delivered on tape and reel
- Design kits available

AN7 Series – Smallest Footprint – Value Leader

0805 SMT footprint.
Excellent frequency response from DC to 6 GHz
Available in designs of 1 through 6dB
TCA - .003 thru -.011, dB/dB/deg C
100mW of input power

AN5 Series – Small Footprint – Higher Power

0807 SMT footprint.
Excellent frequency response from DC to 6 GHz
Available in designs of 1 through 10dB
TCA - .003 thru -.009, dB/dB/deg C
200mW of input power

AN3 Series – Higher Power

1512 SMT footprint.
Excellent frequency response from DC to 4 GHz
Available in designs of 1 through 10dB
TCA - .003 thru -.009, dB/dB/deg C
2W of input power
## TEMPERATURE VARIABLE ATTENUATORS TEMPERATURE SHIFT CROSS REFERENCE CHART

(Attenuation Shift in dB per 10°C)

<table>
<thead>
<tr>
<th>TCA* dB/dB/°C</th>
<th>1 dB</th>
<th>2 dB</th>
<th>3 dB</th>
<th>4 dB</th>
<th>5 dB</th>
<th>6 dB</th>
<th>7 dB</th>
<th>8 dB</th>
<th>9 dB</th>
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<td>-0.03</td>
<td>-0.06</td>
<td>-0.09</td>
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<td>-0.18</td>
<td>-0.21</td>
<td>-0.24</td>
<td>-0.27</td>
<td>-0.30</td>
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<tr>
<td>-0.004</td>
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<td>-0.08</td>
<td>-0.12</td>
<td>-0.16</td>
<td>-0.20</td>
<td>-0.24</td>
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<td>-0.36</td>
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<td>-0.27</td>
<td>-0.36</td>
<td>-0.45</td>
<td>-0.54</td>
<td>-0.63</td>
<td>-0.72</td>
<td>-0.81</td>
<td>-0.90</td>
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</table>

### AN7 Series – Smallest Footprint [mm]

0.014 [0.36] \hspace{1cm} 0.026 [0.66] \hspace{1cm} 0.050 [1.27] \hspace{1cm} 0.040 [1.02]

### AN5 Series – Small Footprint [mm]

0.018 [0.46] \hspace{1cm} 0.025 [0.64] \hspace{1cm} 0.060 [1.52] \hspace{1cm} 0.012 [0.30]

### AN3 Series – Higher Power [mm]

0.036 [0.90] \hspace{1cm} 0.060 [1.52] \hspace{1cm} 0.122 [3.10] \hspace{1cm} 0.021 [0.53]