High Power Resistive Products
Surface Mount Chip Resistors – CS1 and CW Style

GENERAL SPECIFICATIONS

- Resistance: 2 - 100 Ω standard, (other Ω values available)
- Resistive Tolerance: ±2% standard
- Operating Temp Range: -55 to +150°C
- Temperature Coefficient: <150 ppm/°C
- Resistive Elements: Proprietary Thin Film
- Substrate Material: Aluminum Nitride
- Terminals: Silver over Nickel
- Lead-Free, RoHS Compliant
- Reliability: MIL-PRF-55342
- Tape and Reel Specifications:

<table>
<thead>
<tr>
<th>Part Number*</th>
<th>W ± 0.010</th>
<th>L ± 0.010</th>
<th>T ± 0.005</th>
<th>WT ± 0.005</th>
<th>LT ±0.005</th>
<th>LA ± 0.005</th>
<th>Capacitance (pF)</th>
<th>Power Max** (Watts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS12010TxxxxG</td>
<td>.100</td>
<td>.200</td>
<td>.040</td>
<td>.090</td>
<td>.030</td>
<td>.095</td>
<td>.95 pF</td>
<td>10W</td>
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<tr>
<td>CS12525TxxxxG</td>
<td>.245</td>
<td>.245</td>
<td>.040</td>
<td>.120</td>
<td>.040</td>
<td>.110</td>
<td>1.85 pF</td>
<td>20W</td>
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<tr>
<td>CS13725TxxxxG</td>
<td>.250</td>
<td>.375</td>
<td>.040</td>
<td>.120</td>
<td>.050</td>
<td>.195</td>
<td>3.0 pF</td>
<td>30W</td>
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<tr>
<td>CS13737TxxxxG</td>
<td>.370</td>
<td>.370</td>
<td>.040</td>
<td>.360</td>
<td>.050</td>
<td>.195</td>
<td>3.5 pF</td>
<td>40W</td>
</tr>
</tbody>
</table>

* xxxx denotes Ohm value.

** Test Condition: Chip soldered to a via patch on a 30-mil-thick Rogers RO4350 board; Land surfaces at 100°C; maximum rated power applied.

Specification: The resistance of the film shall change no more than 0.5% during and after a 1000-hr. Burn-in per Mil-PRF-55342.

HOW TO ORDER

<table>
<thead>
<tr>
<th>Case Style</th>
<th>CS1</th>
<th>2010</th>
<th>T</th>
<th>xxxx</th>
<th>J</th>
<th>TR</th>
</tr>
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<tbody>
<tr>
<td>Case Size</td>
<td></td>
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<td>Termination</td>
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<tr>
<td>Value</td>
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<td></td>
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</tbody>
</table>

Packaging
TR = Tape & Reel (Standard)
BK = Plastic Carrier

Tolerance

<table>
<thead>
<tr>
<th>Code</th>
<th>F</th>
<th>G</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tol.</td>
<td>±1%</td>
<td>±2%</td>
<td>±5%</td>
</tr>
</tbody>
</table>

The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.
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Surface Mount Chip Resistors – CS1 and CW Style

POWER DERATING

Heat Sink Temperature (°C)

Power Dissipation

Rated Safe Operating Range

TCR CURVE

CW Series Resistor Value Change over Temperature

Resistance (Ohm)

Temperature (°C)

- CW1Q036FTI
- CW1Q050GTI
- CW1Q054FTI

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