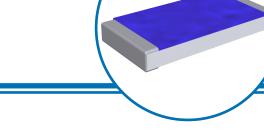
# High Temperature Thick Film Chip Resistors



#### **HTC Series**

- Operation to 200°C
- Excellent high temperature stability
- Improved working voltage ratings
- Pb-free wrap-around terminations
- Standard chip sizes available from 1206 to 2512



### **Electrical Data**

Characteristic	1206	2010	2512	
Resistance Range	1Ω to 10MΩ; ±1%, ±5% 10Ω to 1MΩ; ±0.5%, ±5%, ±1%			
150°C Power Rating	200mW	500mW	750mW	
Max Voltage Rating	200V	400V	500V	
Absolute TCR	± 100ppm/°C			
Operating Temperature	-55°C to +200°C			
Pad/Trace Area <sup>1</sup>	80mm²	200mm <sup>2</sup>	300mm²	
Termination	Wrap-around Pb-free with leach resistant Ni barrier			

Note1 : Recommended minimum pad and adjacent trace area for each termination for rated power on FR4 PCB.

## **Environmental Data**

Test	Mathead	Specification	
Test	Method	Maximum <sup>2</sup>	Typical
Load Life	MIL-STD-202 Method 108 (Rated Power for 1000hrs @ 150°C)	1.00%	0.25%
High Temperature Exposure	1000 hours @ 200°C	1.00%	0.20%
Short Time Overload	MIL-PRF-55342H (6.25X rated power for 5secs)	1.00%	0.10%
Moisture Resistance	MIL-STD-202 Method 106G	1.00%	0.25%
Thermal Shock	MIL-STD-202 Method 107G Condition B	0.25%	0.05%
Resistance to Soldering Heat	MIL-STD-202 Method 210F	0.25%	0.05%
Solderability	MIL-STD-202 Method 208 (245°C, 5 seconds)	>95% Coverage	

Note<sup>2</sup>: 0.01  $\Omega$  added for all resistance values  $<\!10\Omega.$ 

#### General Note

All information is subject to IRC's own data and is considered accurate at time of going to print.

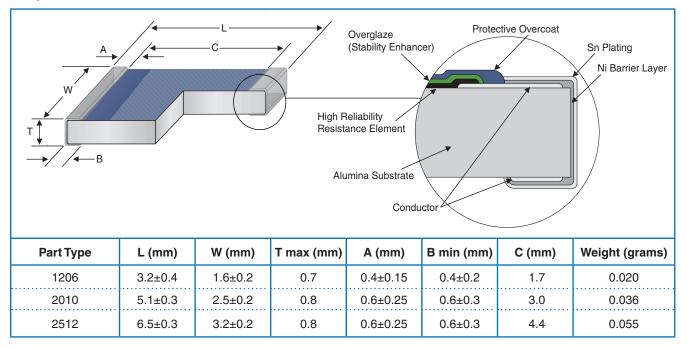


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### Physical Data



#### Construction:

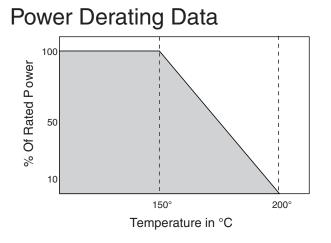
Thick film resistor material, overglaze and organic protection are screen printed on a 96% alumina substrate. Wrap-around terminations have an electroplated Ni barrier and pure Sn matte finish, ensuring excellent `leach' resistance properties and solderability.

#### Marking:

Components are not marked. Reels are marked with type, value, tolerance, date code and quantity.

#### Solvent resistance:

The body protection is resistant to all normal industrial cleaning solvents suitable for printed circuits.



### **Ordering Data**

Prefix TKC - HTC - 2512LF - 100R - F
Chip Type
Chip Size and Termination
<b>Resistance Value (4 Digit Code).</b> Ex. 1R00 = 1Ω; 100R = 100Ω; 10K0 = 10KΩ; 1M50 = 1.5MΩ
Tolerance Code. J = $\pm 5\%$ ; F = $\pm 1\%$ ; D = $\pm 0.5\%$

For additional information or to discuss your specific requirements, please contact our Applications Team using the contact details below.

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 M55342K06B309DRS3
 M55342K06B6E81RS3
 M55342K08B100DRWB
 M55342M05B200DRWB
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 MCR10EZPF2003
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 RC1005F241CS
 RC1005F3011CS
 RC1005F303CS

 RC1005F4321CS
 RC1005F4642CS
 RC1005F471CS
 RC1005F431CS
 RC1005F303CS