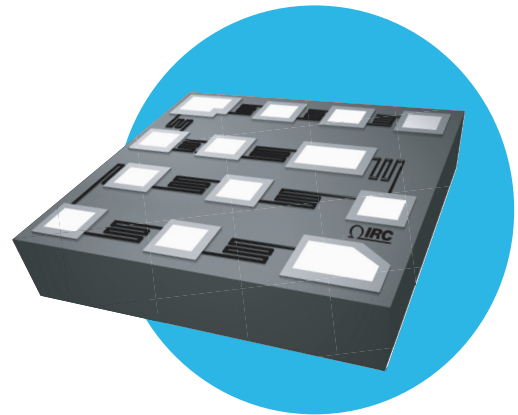


Wire Bondable Multi-tap Chip Resistors

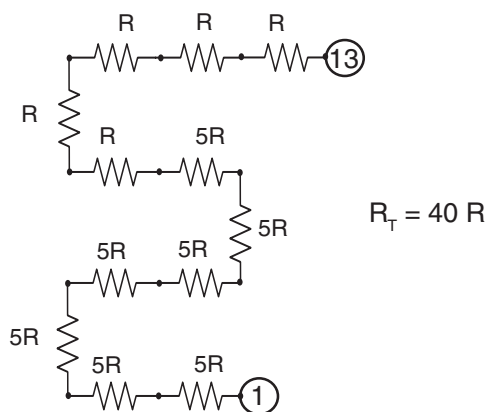
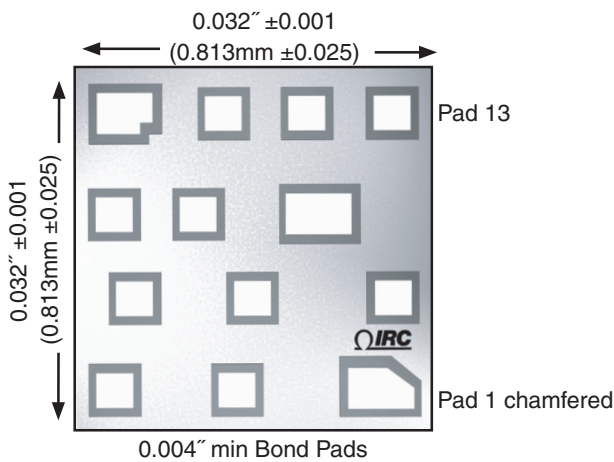
WBC Series

- High resistor density
- MIL inspection available
- Multi-tapped chip resistor



All parts are Pb-free and comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

Physical Data



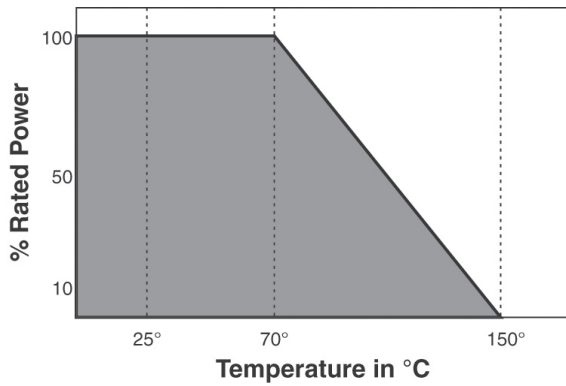
Electrical Data

Absolute Tolerance	to $\pm 5\%$	
Absolute TCR	to $\pm 25\text{ppm}/^\circ\text{C}$	
Package Power Rating (@ 70°C)	250mW	
Rated Operating Voltage (not to exceed $\sqrt{P \times R}$)	100V	
Operating Temperature	-55°C to +150°C	
Noise	<-30dB	
Substrate Material	Oxidized Silicon (10KÅ SiO ₂ minimum)	
Substrate Thickness	0.010" \pm 0.001 (0.254mm \pm 0.025)	
Bond Pad Metallization	Aluminum	10KÅ minimum
	Gold	15KÅ minimum
Backside	Silicon (gold available)	
Passivation	Silicon Dioxide or Silicon Nitride	

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

Power Derating Data



TCR/Inspection Code Table

Absolute TCR	Commercial Code	MIL Inspection Code*
±300ppm/°C	00	04
±100ppm/°C	01	05
±50ppm/°C	02	06
±25ppm/°C	03	07

*Notes: Product supplied to Class H of MIL-PRF 38534 include 100% visual inspection

Environmental Data

Test	Method	Max ΔR	Typical ΔR
Thermal Shock	MIL-STD-202 Method 107 Test condition F	±0.1%	±0.02%
High Temperature Exposure	MIL-STD-883 Method 1008 150°C, 1000 hours	±0.1%	±0.05%
Low Temperature Storage	-55°C, 1000 hours	±0.03%	±0.01%
Life	MIL-STD-202 Method 108 70°C, 1000 hours	±0.5%	±0.01%
Life at Elevated Temperature	MIL-STD-202 Method 108 125°C, 1000 hours	±0.5%	±0.05%

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Manufacturing Capabilities Data

Resistance R Total	Available Absolute Tolerances	Best Absolute TCR
100Ω	M K	±100ppm/°C
400Ω	M K J	±100ppm/°C
800Ω	M K J	±100ppm/°C
2.4KΩ	M K J	±50ppm/°C
8.0KΩ	M K J	±50ppm/°C
24KΩ	M K J	±25ppm/°C
80KΩ	M K J	±25ppm/°C

Ordering Data

Prefix **WBC** - **M0303** **A** **S** - **01** - **2402** - **J**

Style
M0303

Bonding pads
A = Aluminum; G = Gold

Backside
G = Gold; S = Silicon

TCR/Inspection Code
Reference TCR/Inspection Code Table

Total Resistance = R_T
4-Digit Resistance Code
Ex: 8000 = 800Ω; 2402 = 24.0KΩ
Reference manufacturing Capabilities Data Table for available resistances

Absolute Tolerance Code
M = ±20%; K = ±10%; J = ±5%

Packaging
Standard packaging is 2" x 2" chip tray. For additional information or to discuss your specific requirements, please contact our Applications Team using the contact details below.

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