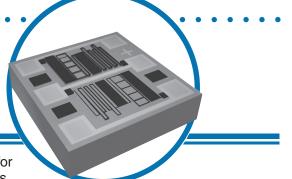
Wire Bondable Chip Resistors

Felectronics IRC Advanced Film Division

WBC Series

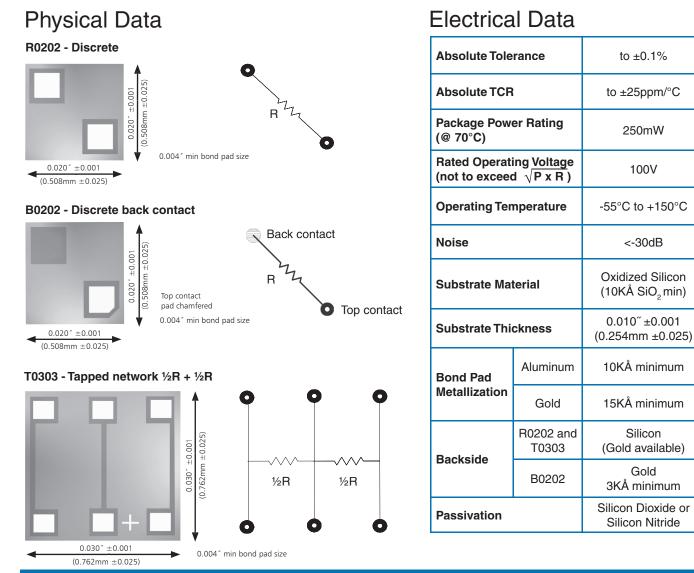
- Discrete or tapped schematics
- MIL inspection available
- High resistor density



IRC's WBC series wire bondable chip resistors are ideally suited for the most demanding hybrid application. The WBC combines IRC's

TaNSil[®] tantalum nitride thin film technology with silicon substrate processing to produce an extremely small footprint device with the proven stability, reliability and moisture performance of IRC's TaNSil[®] resistor film.

Available in a wide range of tolerances and temperature coefficients to fit a variety of hybrid circuit applications. Custom resistance values, sizes and schematics are available on request from the factory.





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

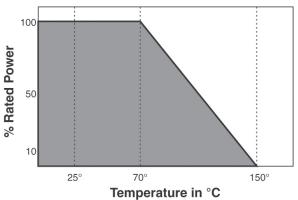
© IRC Advanced Film Division • Corpus Christi Texas 78411 USA Telephone: 361 992 7900 • Facsimile: 361 992 3377 • Email: afdsales@irctt.com • Website: www.irctt.com



Wire Bondable Chip Resistors



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 includes 100% visual inspection

Manufacturing Capabilities Data

Resistance Range	Available Absolute Tolerances	Available Ratio Tolerances (T0303 only)	Best Absolute TCR	Tracking TCR (T0303 only)
10Ω-20Ω	GJK	FGJ	±100ppm/°C	±50ppm/°C
21Ω–50Ω	FGJK	FGJ	±100ppm/°C	±50ppm/°C
51Ω-100Ω	CDFGJK	CDFGJ	±100ppm/°C	±25ppm/°C
101Ω–200Ω	CDFGJK	CDFGJ	±50ppm/°C	±10ppm/°C
201Ω–500Ω	BCDFGJK	BCDFGJ	±50ppm/°C	±5ppm/°C
501Ω-999Ω	BCDFGJK	BCDFGJ	±25ppm/°C	±2ppm/°C
1.0ΚΩ-1.0ΜΩ	BCDFGJK	ABCDFGJ	±25ppm/°C	±2ppm/°C

Wire Bondable **Chip Resistors**



Environmental Data

Test	Method	Max ∆R	Typical ∆R
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%

Ordering Data

Prefix WBC - R0202 A S - 01 - 1002 - F	в
Style- R0202 = Discrete Element B0202 = Discrete Element with Back Contact T0303 = Tapped Network	•
Bonding pads- A = Aluminum; G = Gold Backside-	
G = Gold; S = Silicon	
TCR/Inspection Code Code Table	
Total Resistance (R) 4-Digit Resistance Code Ex: 1002 = 10KΩ; 50R1 = 50.1Ω	
Absolute Tolerance Code- K = $\pm 10\%$; J = $\pm 5\%$; G = $\pm 2\%$; F = $\pm 1\%$; D = $\pm 0.5\%$; C = $\pm 0.25\%$; B = $\pm 0.1\%$	
$\begin{array}{l} \mbox{Ratio Tolerance Code (T0303 Only)}{\cdot} & & \\ \mbox{J} = \pm 5\%; \mbox{G} = \pm 2\%; \mbox{F} = \pm 1\%; \mbox{D} = 0.5\%; \mbox{C} = \pm 0.25\%; \mbox{B} = \pm 0.1\%; \mbox{A} = \pm 0.05\% \end{array}$:

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.