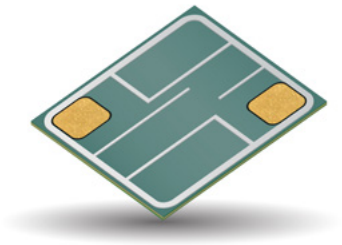
Thin Film WBR (Wire Bond Resistor)

Top Contact



GENERAL DESCRIPTION

Top Contact Precision wire bondable resistors are ultra-stable with high reliability. Resistors are laser trimmed to tight tolerance. Customizable value and unique marking of that value. This device is built in 0202 chip outline and is ideal for but not limited to hybrid circuit applications.

These are designed specifically for applications that require thermo-compression, epoxy or ultra-sonic attachment.

APPLICATIONS

- Medical Implantable
- Military / Defense
- Hybrid Designs
- Multi-Chip Module (MCM)
- Test & Measurement Instrumentation
- High-Rel Microelectronics
- RF / Microwave communications

BENEFITS

- Top Contact/ Bottom Isolated
- Ultra High Stability
- High Reliability
- Extremely Tight Tolerance
- Unique Value Marking
- 250 mW Power Rating
- Small package size

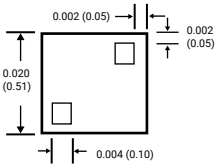
HOW TO ORDER

WBR	0202	S	D	1R051	F	G	W
Series Code	**Case Size**	**Material**	**TCR (ppm/°C)**	**Resistance**	**Tolerance**	**Termination Code**	**Packaging**
WBR = Wire Bond Resistor	0202 = 0202 0S0S = Special Request Please supply Design or contact factory	S = Silicon G = Glass C = Custom	D = ±150 S = Special Request supply design or contact factory	1R500 = 1.5 ohm 1R051 = 10.5ohm 1R052 = 105ohm 1R053 = 1,050ohm 2R553 = 2,550ohm 1R054 = 10,500ohm 1R007 = 10Megohm Not standard values, values shown for intruction purposes only	F = 1% G = 2% J = 5% S = Special Request supply design or contact factory	G = Bondable Gold A = Aluminum	W = Waffle Pack

MECHANICAL DIMENSIONS INCHES (MM)

Size	Length (L)	Width(W)	Minimum Bond Area
0202	0.020 ± 0.003 (0.51 ± 0.076)	0.020 ± 0.003 (0.51 ± 0.076)	0.0038 ± 0.0038 (0.09 x 0.09)

Other sizes available upon request



GENERAL CHARACTERISTICS

Operating Temperature	-55°C ± 125°C
Insulation Resistance	10^6MOhm

ENVIRONMENTAL TESTS

Test	Limits	Specification
Life Test/ Stability	±0.25% Max Δ R/R	MIL-STD-202 MTD 108, 1000hrs, 125°C,50mW
Thermal Shock	±0.25% Max Δ R/R	MIL-STD-202 MTD 107
High Temperature Exposure	±0.25% Max Δ R/R	100 Hrs @ 150°C
Moisture Resistance	±0.25% Max Δ R/R	MIL-STD-202 MTD 106
Wire Bond Test	4 Gram Min (1.25 Mil Wire)	MIL –PRF-55342
Short Time Overload	±0.25% Max Δ R/R	MIL –PRF-55342

STANDARD VALUES

Part Number	Value (ohm)
WBR0202SD1R001FGW	10Ω
WBR0202SD2R001FGW	20Ω
WBR0202SD4R701FGW	47Ω
WBR0202SD1R002FGW	100Ω
WBR0202SD1R302FGW	130Ω
WBR0202SD2R202FGW	220Ω
WBR0202SD3R302FGW	330Ω
WBR0202SD6R802FGW	680Ω
WBR0202SD1R003FGW	1kΩ
WBR0202SD3R013FGW	3.01kΩ
WBR0202SD4R703FGW	4.7kΩ
WBR0202SD5R003FGW	5kΩ
WBR0202SD1R004FGW	10kΩ
WBR0202SD1R005FGW	100kΩ
WBR0202SD1R006FGW	1MΩ
WBR0202SD1R007FGW	10MΩ

Custom values available from 1 to 10M Ohm available upon request

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

KYOCERA AVX:

WBR0202SBAXFWGW WBR0202SBDUFWGW WBR0202SCBEFWGW WBR0202SCBXFWGW WBR0202SCEFGWGW WBR0202SCGFFWGW WBR0202SDJPFWGW WBR0202SDMKFWGW WBR0202SCHYFWGW WBR0202SCJFFWGW WBR0202SCJTFWGW WBR0202SCMNFWGW WBR0202SCPYFWGW WBR0202SCVUFWGW WBR210R0FGEW WBR21001FGEW WBR212R5FGEW WBR250R0FGEW WBR25R60FGDW WBR26R00FGDW WBR27R50FGEW WBR0202SC1R251FGW