## RESISTOR WIREWOUND CHASSIS MOUNT WHS **RWC SERIES**



#### KEY FEATURES

- · Resistances from 0.005 to 250kOhms
- Tolerance to ± 0.01%
- High Temperature: -55°C to +275°C
- Low TCR: ± 20ppm/ °C
- Power Rating 5 to 300 Watts
- Excellent Pulse Handling
- Non-Inductive windings available
- Four Terminal Versions Available (Call Factory)

#### **APPLICATIONS**

- Motor Control
- Welding
- Braking Systems
- X-Ray

### Product Summary

		POWER RATING (W @ 25°C)					
PRODUCT SERIES (RWC)	RESISTANCE RANGE (Ω) <sup>1</sup>	FREE AIR	COMMERCIAL	MIL	DIELECTRIC STRENGTH	TEMPERATURE COEFFICIENT	TEMPERATURE RANGE
G1	0.01 to 22K	4.5	7.5 a	5 a	1500 VAC	100 : 00nnm/00	
G2	0.01 to 47K	7.5	12.5 a	10 a	1500 VAC	* >10Ω: ± 20ppm/°C	FF0C to . 07F0C
G3	0.01 to 90K	12	25 ь	20 b	2500 VAC	• 1 $\Omega$ to 10 $\Omega$ : ± 50ppm/°C	- 55°C to + 275°C
G4	0.01 to 250K	20	50 °	30 ¢	3500 VAC	<1Ω: Call Factory	

**TOLERANCE**: ± 0.01 to ± 10% (1% Standard)

AVAILABLE OPTIONS (Consult Factory)

**Special Testing Requirements** 

Special Pulse Requirements

- <sup>1</sup> For non-inductive windings, divide maximum resistance by 2
- a Heatsink required: 0.040 [1.0] Aluminum Plate, 129 in<sup>2</sup> [832 cm<sup>2</sup>] or equiv.
- b Heatsink required: 0.040 [1.0] Aluminum Plate, 167 in<sup>2</sup> [1077 cm<sup>2</sup>] or equiv.
- c Heatsink required: 0.059 [1.5] Aluminum Plate, 291 in2 [1877 cm2] or equiv.
- d Heatsink required: 0.125 [3.2] Aluminum Plate, 294in<sup>2</sup> [1896cm<sup>2</sup>] or equiv.
- e Heatsink required: 0.125 [3.2] Aluminum Plate, 895 in<sup>2</sup> [5780 cm<sup>2</sup>] or equiv.

### How to Order

**RWC** Ν F G1 U 003K8 RESISTOR WIRE-WINDINGS PACKAGE CODE, **TEMPERATURE** RESISTANCE TOLERANCE PACKING WOUND CHASSIS WATTS (COMMERCIAL), **COEFFICIENT OF MOUNT** RESISTANCE RESISTANCE (TCR)

> S = Standard N = Non-Inductive

G1, 7.5W, [0.01 to 22k] $\Omega$ G2, 12.5W, [0.01 to 47k] $\Omega$ G3, 25.0W,  $[0.01 \text{ to } 90k]\Omega$ G4, 50.0W, [0.01 to 250k] $\Omega$   $U = \pm 20ppm/^{\circ}C$  $Q = \pm 50ppm/^{\circ}C$ Z = Special

 $038R0 = 38\Omega$ 003K8 = 3.8KΩ 038K0 = 38.0KΩ 380K0 = 380.0KΩ  $003M8 = 3.8M\Omega$ Letter denotes

 $T = \pm 0.01\%$  $Q = \pm 0.02\%$  $A = \pm 0.05\%$  $B = \pm 0.1\%$ F= ± 1.0% J= ± 5.0%

S

S = Bulk

 $K = \pm 10.0\%$ 

decimal place.
R = decimal., "K" 10<sup>3</sup>, "M" 10<sup>6</sup>
Remaining 4 digits are significant or placeholders

For Tin/Lead coated leads, add "- Pb" to part number.

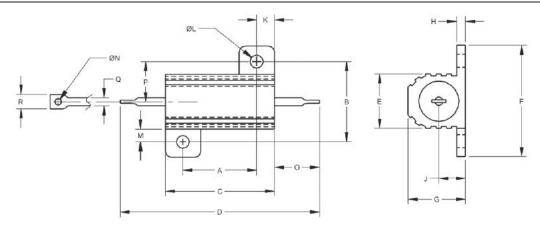
Standard Termination Finish: Matte Tin (Sn)

Example P/N: RWCNG1U003K8FS is Resistor Wirewound Chassis Mount, Non-Inductive, 7.5W, ±20ppm/°C, 3.8KΩ, ±1.0%, bulk



# RESISTOR WIREWOUND CHASSIS MOUNT RHS RWC SERIES

## **M**ECHANICAL **C**HARACTERISTICS



Package Code		G1	G2	G3	G4
	<b>A</b> (Tolerances) ±0.005 [±0.13 mm]	0.444 [11.28]	0.562 [14.27]	0.719 [18.26]	1.563 [39.70]
	<b>B</b> (Tolerances) ±0.005 [±0.13 mm]	0.490 [12.45]	0.625 [15.88]	0.781 [19.84]	0.844 [21.44]
	<b>C</b> (Tolerances) ±0.031 [±0.79 mm]	0.600 [15.24]	0.750 [19.05]	1.062 [26.97]	1.968 [49.99]
	<b>D</b> (Tolerances) ±0.062 [±1.57 mm]	1.125 [28.58]	1.320 [33.53]	1.870 [47.50]	2.760 [70.10]
	<b>E</b> (Tolerances) ±0.015 [±0.38 mm]	0.334 [8.48]	0.430 [10.92]	0.530 [13.46]	0.615 [15.62]
	<b>F</b> (Tolerances) ±0.015 [±0.38 mm]	0.646 [16.41]	0.800 [20.32]	1.080 [27.43]	1.140 [28.96]
	<b>G</b> (Tolerances) ±0.015 [±0.38 mm]	0.320 [8.13]	0.400 [10.16]	0.560 [14.22]	0.615 [15.62]
	<b>H</b> (Tolerances) ±0.010 [±0.25 mm]	0.065 [1.65]	0.075 [1.91]	0.085 [2.16]	0.085 [2.16]
Dimensions Inches [mm]	<b>J</b> (Tolerances) ±0.010 [±0.25 mm]	0.140 [3.56]	0.190 [4.83]	0.260 [6.60]	0.300 [7.62]
	<b>K</b> (Tolerances) ±0.010 [±0.25 mm]	0.078 [1.98]	0.093 [2.36]	0.172 [4.37]	0.196 [4.98]
	<b>L</b> (Tolerances) ±0.005 [±0.13 mm]	0.093 [2.36]	0.093 [2.36]	0.125 [3.18]	0.125 [3.18]
	<b>M</b> (Tolerances) ±0.015 [±0.38 mm]	0.078 [1.98]	0.102 [2.60]	0.125 [3.18]	0.125 [3.18]
	<b>N</b> (Tolerances) ±0.006 [±0.15 mm]	0.050 [1.27]	0.080 [2.03]	0.080 [2.03]	0.080 [2.03]
	<b>O</b> (Tolerances) ±0.062 [±1.57 mm]	0.266 [6.76]	0.312 [7.93]	0.438 [11.13]	0.438 [11.13]
	<b>P</b> (Tolerances) ±0.031 [±0.79 mm]	0.245 [6.22]	0.312 [7.92]	0.391 [9.93]	0.422 [10.72]
	<b>Q</b> (Tolerances) ±0.002 [±0.05 mm]	0.051 [1.30]	0.098 [2.49]	0.098 [2.49]	0.098 [2.49]
	<b>R</b> (Tolerances) ±0.031 [±0.79 mm]	0.085 [2.16]	0.160 [4.06]	0.185 [4.70]	0.185 [4.70]
/IL-R-39009 /	MIL-R-18546	RER-60 / RE-60	RER-65 / RE-65	RER-70 / RE-70	RER-75 / RE-75

## RESISTOR WIREWOUND CHASSIS MOUNT RWC SERIES

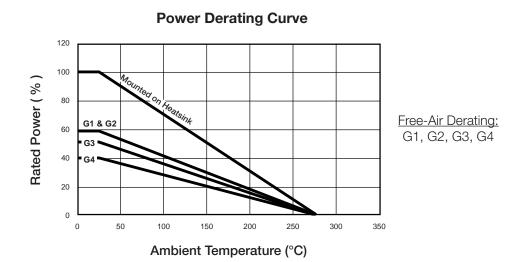
## **ENVIRONMENTAL PERFORMANCE**

Environmental Performance (MIL-STD 202)	ΔR		
Vibration	± 0.1 % + 0.05 Ω		
Load Life	± 1% + 0.05 Ω		
Moisture Resistance	± 0.2 % + 0.05 Ω		
Dielectric	± 0.2 % + 0.05 Ω		
Storage	± 0.2 % + 0.05 Ω		
Shock	± 0.1 % + 0.05 Ω		
Thermal Shock	± 0.2 % + 0.05 Ω		
5X Overload (5s)	± 0.2 % + 0.05 Ω		

#### **CONSTRUCTION NOTES:**

- Centerless ground ceramic core
- Tinned copper or copperweld leads
- All welded terminations
- High Temperature epoxy molding compound
- Anodized aluminum housing

Moisture Sensitivity Level: MSL-1



This datasheet is subject to change without notice.

## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Wirewound Resistors - Chassis Mount category:

Click to view products by Johanson manufacturer:

Other Similar products are found below:

HD300HLR71J RER50F18R7RC02 RER50F7R50RC02 RER75F4991MC02 RH0055R000FC02W09 2-1623821-6 FVT200-500

RDSF010015R00JDBNI RER60F34R8RC02 RER60F51R1MC0230 RER65F1R50PC02 RER70F62R5PC02 VK100NA-200 VK100NA-50

VK100NA-750 40/70MJ2K00BE VP10FA-3K VP50KA-20K VPR10F1 VPR10F-13.5K VPR10F-4500 VPR10F-4.5K VPR10F-4K

VPR10F-700 VPR10F-7.5K VPR20H150 VPR5F-22.5K L75J1K0E VRH320 3K3 K RER65F2940PC02 RER65F4R99RC02

RER75F1R00RC02 RER65FR100RC02 RER70F27R4P VPR5F-600 VPR5F250 VPR10F-8K VPR10F-6K VPR10F-25 VPR10F-1.75K

VPR10F-1.25K VPR10F-125 VPR10F10 VP50KA-12K VP50KA-100K VP25KA-5000 VK100NA250 VK100NA-15 850J5R0E-B

L100J150E-MT1