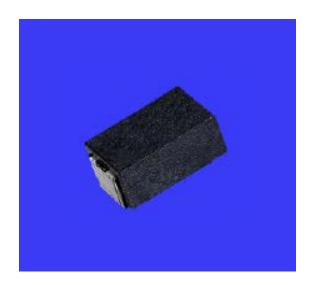
RESISTOR WIREWOUND PRECISION SMT **RWF SERIES**





KEY FEATURES

- Resistance from 0.005 to 50kOhms
- Precision, Flame Proof and Pulse Withstanding
- Tolerance to ± 0.01%
- High Power to 4 Watts
- Flame Resistant UL 94V-0
- Superior Surge Handling Capability
- High Temperature Rating up to 275°
- Low Temperature Coefficient to ± 20ppm/°O
- Non-Inductive Windings available

APPLICATIONS

- Motor Control
- Power Supplies
- Braking Systems
- Pressure Transducers

PRODUCT SUMMARY

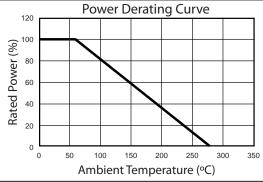
PRODUCT SERIES (RWF)	RESISTANCE RANGE (Ω) ¹	POWER RATING (W) @ 70 °C	DIELECTRIC STRENGTH	TOLERANCE	TEMPERATURE COEFFICIENT	TEMPERATURE RANGE	INSULATION RESISTANCE
C1	0.01 to 400	0.5					
C2	0.005 to 3k	1		± 0.01%	◆ >10 Ω : ± 20ppm/°C		
C3	0.01 to 15k	2	1000 VAC	to	• 1 Ω to 10 Ω: ± 50ppm°C	- 55°C	
C4	0.01 to 25k	3		± 5%	• <1 Ω : Call Factory	to	>1000 MOhms
C5	0.01 to 50k	4				+ 275°C	/ Dry
D1	0.005 to 0.05	1		± 0.1%	± 200ppm/°C		
D2	0.005 to 0.07	2	500 VAC	to ± 5%	Call Factory For Lower		

¹ For non-inductive windings, divide max resistance by 2

Maximum Working Voltage = $\sqrt{Power \times Resistance}$

AVAILABLE OPTIONS (Consult Factory)

- **Special Testing Requirements**
- Special Pulse Requirements



How to Order

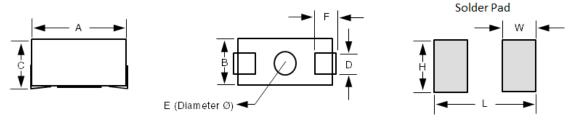
RWF	N	C4	U	380R0	В	E
RESISTOR WIREWOUND SMT	WINDINGS	PACKAGE CODE, WATTS, RESISTANCE	TEMPERATURE COEFFICIENT OF RESISTANCE (TCR)	RESISTANCE	TOLERANCE	PACKING
	S = Standard N = Non- Inductive	C1, 0.5W, [0.01 to $400]\Omega$ C2, 1.0W, [0.005 to $3k]\Omega$ C3, 2.0W, [0.01 to $15k]\Omega$ C4, 3.0W, [0.01 to $25k]\Omega$ C5, 4.0W, [0.01 to $50k]\Omega$	$U = \pm 20 \text{ppm/°C}$ $Q = \pm 50 \text{PPM/°C}$ $L = \pm 200 \text{ppm/°C}$ $Z = \text{special}$	$0R038 = 0.038\Omega$ $003K8 = 3.8KΩ$ $038K0 = 38.0KΩ$ $380K0 = 380.0KΩ$ $003M8 = 3.8MΩ$ Letter denotes decimal place.	$T = \pm 0.01\%$ $Q = \pm 0.02\%$ $A = \pm 0.05\%$ $B = \pm 0.1\%$ $F = \pm 1.0\%$ $J = \pm 5.0\%$	E = Embossed Tape & Reel
* For Tin/Lead coated le	,	D1, 1.0W, $[0.005 \text{ to } 0.05]\Omega$ D2, 2.0W, $[0.005 \text{ to } 0.07]\Omega$		R = decimal., "K" 10 ³ , "M" 10 ⁶ Remaining 4 digits are significant placeholders		

Example P/N: RWFNC4U380R0BE is Resistor Wirewound Precision SMT Non-Inductive, 3.0W, ± 20 ppm/°C, 380 Ω , ± 0.1 %, embossed tape & reel

RESISTOR WIREWOUND PRECISION SMT RWF SERIES



MECHANICAL CHARACTERISTICS



Lead Thickness 0.006 [.015mm] Tolerances ±0.002" [±0.05mm]

Package Code		C1	C2	C3	C4	C5	D1	D2
Dimensions Inches [mm]	A (Tolerances) ±0.015" [±0.4mm]	0.190 [4.83]	0.260 [6.60]	0.450 [11.43]	0.625 [15.83]	0.820 [20.83]	0.260 [6.60]	0.450 [11.43]
	B (Tolerances) ±0.015" [±0.4mm]	0.130[3.30]	0.155 [3.94]	0.250 [6.35]	0.270[6.86]	0.295 [7.49]	0.155 [3.94]	0.250 [6.35]
	C (Tolerances) ±0.015" [±0.4mm]	0.110 [2.79]	0.125 [3.18]	0.180 [4.57]	0.250 [6.35]	0.305 [7.75]	0.100 [2.54]	0.100 [2.54]
	D (Tolerances) ±0.015" [±0.4mm]	0.060 [1.52]	0.070[1.78]	0.120 [3.05]	0.120 [3.05]	0.150 [3.81]	0.070 [1.78]	0.120 [3.05]
	F (Tolerances) ±0.015" [±0.4mm]	0.040 [1.02]	0.070 [1.78]	0.100 [2.54]	0.135 [3.43]	0.190 [4.83]	0.070 [1.78]	0.100 [2.54]
Stand-Off Inches [mm]	E (Tolerances) ±0.015" [±0.4mm]	0.100 [2.54]	0.120 [3.05]	0.190 [4.83]	0.150 [3.81]	0.245 [6.22]	0.120 [3.05]	0.190 [4.83]
	Height (Tolerances) ±0.005"[±0.13mm]	0.005 [0.13]	0.005 [0.13]	0.005 [0.13]	0.005 [0.13]	0.005 [0.13]	0.005 [0.13]	0.005 [0.13]
Solder Pad Inches [mm]	Width (Tolerances) ±0.015" [±0.4mm]	0.062 [1.57]	0.096 [2.44]	0.150 [3.81]	0.200 [5.08]	0.220 [5.59]	0.096 [2.44]	0.150 [3.81]
	Height (Tolerances) ±0.015" [±0.4mm]	0.100 [2.54]	0.150 [3.81]	0.200 [5.08]	0.220 [5.59]	0.250 [6.35]	0.150 [3.81]	0.200 [5.08]
	Length (Tolerances) ±0.015" [±0.4mm]	0.250 [6.35]	0.337 [8.56]	0.540 [13.72]	0.700 [17.78]	0.900 [22.86]	0.337 [8.56]	0.540 [13.72]

ENVIRONMENTAL PERFORMANCE

Environmental Performance (MIL-STD 202)	Δ R Maximum		
Load Life	±1% + 0.05 Ω		
Moisture Resistance	±1%+0.0512		
Dielectric	10.50/ +0.05-0		
Storage	$\pm 0.5\% + 0.05 \Omega$		
Shock			
Thermal Shock	10.50/ +0.05 0		
5X Overload (5s)	$\pm 0.5\% + 0.05 \Omega$		
Resistance to Heat Solder (260C, 10s)			

PACKAGING INFORMATION

Package Code	C1	C2	C3	C4	C5	D1	D2
Reel/Tape Width [mm]	12	16	24	24	32	16	24
Small	650	600	250	125	180	600	250
Large	3000	2000	1000	500	500	2000	1000

Humidity Packaging Notes:

Moisture Barrier Bags (MBB) are used to package surface mount components. These bags include a dessicant and a Humidity Indicator Card to monitor humidity levels. All bags are marked with Moisture-Sensitive Identification Labels.

A Moisture Sensitivity Level (MSL) rating of 2 (1-year floor life) applies to the Johanson RWF Series.

This datasheet is subject to change without notice.

