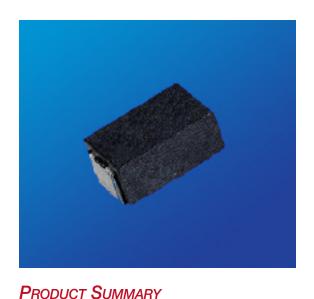
RESISTOR WIREWOUND PRECISION SMT **RWF SERIES**



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/°C

§ 100

80

60

40

20

0 0

Rated Power

Non-Inductive Windings available

APPLICATIONS

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

Power Derating Curve

150

200 Ambient Temperature (°C)

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%	→ >10Ω: ± 20ppm/°C		
C3	0.01 to 15k	2	1000 VAC		 1Ω to 10Ω: ± 50ppm°C <1Ω: Call Factory 	- 55°C to + 275°C	>1000 MOhms / Dry
C4	0.01 to 25k	3		± 5%			
C5	0.01 to 50k	4					
D1	0.005 to 0.05	1	=00.140	± 0.1%	to ± 200ppm/°C		
D2	0.005 to 0.07	2	500 VAC	to ± 5%			

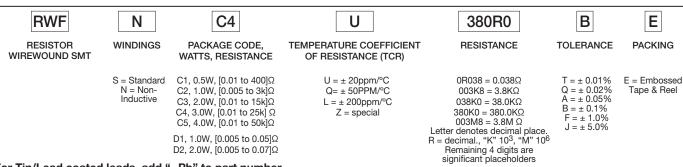
¹ For non-inductive windings, divide max resistance by 2

Maximum Working Voltage = √ Power x Resistance

AVAILABLE OPTIONS (Consult Factory)

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

How to Order



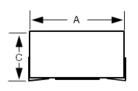
For Tin/Lead coated leads, add "- Pb" to part number.

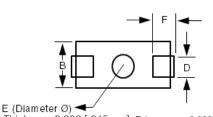
Standard Termination Finish: Electroless Tin

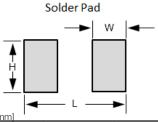
Example P/N: RWFNC4U380R0BE is Resistor Wirewound Precision SMT Non-Inductive, 3.0W, ±20ppm/°C, 380Ω, ±0.1%, embossed tape & reel

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	.10/ .005.0		
Moisture Resistance	±1% + 0.05 Ω		
Dielectric	.0.50/ .0.05 0		
Storage	$\pm 0.5\% + 0.05 \Omega$		
Shock			
Thermal Shock	.0.50/ .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.



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RWS5 R22 F B WSM24R99FLFTR RWS5 R47 J B RWS5 R68 F B SMW5R11JT WSC2515365R0FTB RWS5 82R F B RWS5 120R F B RWS5 10R F B ACS-10S-15R-J SMW3300RJT RW7S0FB180RJET RW5S0FA470RJET RW7S0FB4K70JET RW7S0FB4K70FET RWS5 R1 J B RWS5 33R J B RWS1 50R F B PWR4318W1001JE PWR4318W4700JE PWR2010WR500FE PWR4318WR470JE QL0000J0220200 QL0025J0470000 QL0050J0102000 QL0050J0362000 QL0080J0470000 R100W-10R R100W-470R R100W-4R7 R200W-220R R200W-22R R200W-47R R50W-10R R50W-22R R50W-2R2 R80W-47R SMW5R36JT SMW5R24JT SMW591RJT SMW52R4JT SMW513RJT SMW562RJT SMW5240RJT SMW51R6JT JW08 RTS-01-100-100R-5-5/A RTS-01-100-10K-5-5/A RTS-01-100-15R-5-5/A RTS-01-100-15R-5-5/A