Resistor Metal Element Current Sense
RMC Series



KEY FEATURES

- Resistances from 0.005 to 0.100 Ohms
- Low Inductance (<10nH)
- Tolerances to ± 1%
- Resistance Wire TCR: ± 20ppm/ºC
- For Current Sensing and Shunt Applications
- All Welded Construction
- Economical Bare Metal Element

APPLICATIONS

- Base Station
- Power Inverters
- Current Sensing
- Lightning Pulse Survival

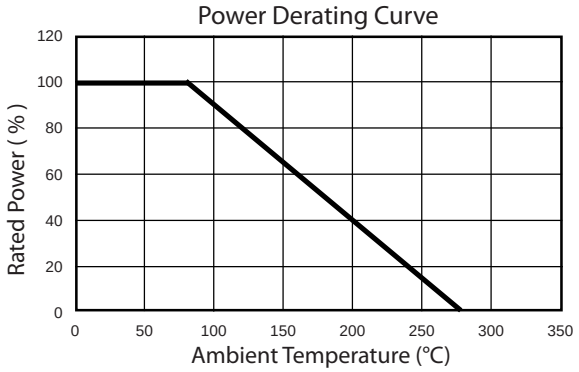
PRODUCT SUMMARY

PRODUCT SERIES (RMC)	POWER RATING @ 85ºC (W)	RESISTANCE (Ω) [1]	TOLERANCES
J1	1	0.005, 0.01, 0.02, 0.025, 0.03, 0.04, 0.05, 0.1	± 1% / ± 5%
J2	3	0.005, 0.01, 0.015, 0.02, 0.025, 0.03, 0.04, 0.05, 0.1	± 1% / ± 5%
J3	5	0.005, 0.01, 0.015, 0.02, 0.025, 0.03, 0.05, 0.1	± 1% / ± 5%

[1] Contact Factory for other resistances

AVAILABLE OPTIONS (Consult Factory)

- Special Testing Requirements



HOW TO ORDER

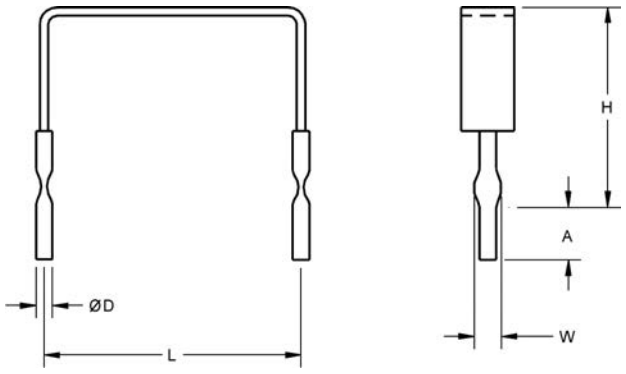
RMC	J2	U	0R005	F	S
RESISTOR METAL ELEMENT CURRENT SENSE	PACKAGE CODE, WATTS	TEMPERATURE COEFFICIENT OF RESISTANCE (TCR)	RESISTANCE	TOLERANCE	PACKING
	J1, 1.0W J2, 3.0W J3, 5.0W	U = ± 20ppm/ºC	0R005 = 0.005Ω (5mΩ) 0R025 = 0.025Ω (25mΩ) 00R05 = 0.05Ω (50mΩ) 000R1 = 0.1Ω (100mΩ) Letter denotes decimal place. R = decimal., "K" 10^3, "M" 10^6 Remaining 4 digits are significant or placeholders.	F = ± 1.0% J = ± 5.0%	S = Bulk

Example P/N: RMCJ2U0R005FS is Resistor Metal Element Current Sense, 3.0W, ±20ppm/ºC, 0.005Ω, ±1.0%, bulk
* For Tin/Lead coated leads, add "- Pb" to part number

This datasheet has been downloaded from http://www.digchip.com at this page

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MECHANICAL CHARACTERISTICS



Package Code		J1	J2	J3
Dimensions Inches [mm]	H	0.200 [5.08] (Tolerances) ±0.100" [±2.54mm]	1.0 [25.40mm] Max	1.0 [25.40mm] Max
	L (Tolerances) +0.040 / -0.020" [+1.02 / 0.51mm]	0.450 [11.43mm]	0.600 [15.24mm]	0.800 [20.32mm]
	D (Tolerances) ±0.002" [±0.05mm]	0.040 [1.02mm]	0.040 [1.02mm]	0.040 [1.02mm]
	W (Tolerances) +0.010 / -0.005 [+0.25 / -0.13mm]	0.065 [1.65mm]	0.065 [1.65mm]	0.065 [1.65mm]
	A (Tolerances) ±0.030" [±0.8mm]	0.125 [3.18mm]	0.125 [3.18mm]	0.125 [3.18mm]

PACKAGING INFORMATION

Package Code	J1	J2	J3
Standard Package Quantities	250 (Bulk Only)		

* Moisture Sensitivity Level: MSL-1

This datasheet is subject to change without notice.