

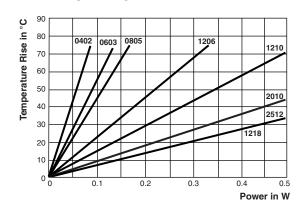
TECHNICAL SPECIFICATIONS									
PARAMETER	UNIT	RCWL0402	RCWL0603	RCWL0805	RCWL1206	RCWL1210	RCWL1218	RCWL2010	RCWL2512
Operating temp. range	°C	-55 to +155							
Maximum operating voltage	V	$(P \times R)^{1/2}$							
Insulation voltage U <sub>ins</sub> (1 min)	V	> 75	> 100	> 200	> 300	> 300	> 300	> 300	> 300
Insulation resistance	Ω	> 109							
Weight/1000 pieces (typical)	g	0.65	2	5.5	10	16	29.5	25.5	40.5

# DIMENSIONS T2 4 T1 4

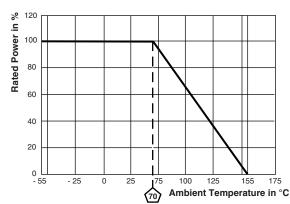
• Surface mount solder profile recommendations: <a href="www.vishay.com/doc?31052">www.vishay.com/doc?31052</a>

	DIMENSIONS in millimeters										
MODEL	L	w	н	T1	T2	REFLOW SOLDERING			WAVE SOLDERING		
	_					а	b	ı	а	b	I
RCWL0402	1.0 ± 0.05	$0.5 \pm 0.05$	$0.35 \pm 0.05$	$0.25 \pm 0.05$	$0.2 \pm 0.1$	0.4	0.6	0.5	0.5	0.6	0.5
RCWL0603	1.55 + 0.10 - 0.05	0.85 ± 0.1	$0.45 \pm 0.05$	0.3 ± 0.2	$0.3 \pm 0.2$	0.5	0.9	1.0	0.9	0.9	1.0
RCWL0805	2.0 + 0.20 - 0.10	1.25 ± 0.15	$0.45 \pm 0.05$	0.3 + 0.20 - 0.10	$0.3 \pm 0.2$	0.7	1.3	1.2	0.9	1.3	1.3
RCWL1206	3.2 + 0.10 - 0.20	1.6 ± 0.15	$0.55 \pm 0.05$	0.45 ± 0.2	0.4 ± 0.2	0.9	1.7	2.0	1.1	1.7	2.3
RCWL1210	$3.2 \pm 0.2$	2.5 ± 0.2	$0.55 \pm 0.05$	$0.45 \pm 0.2$	$0.4 \pm 0.2$	0.9	2.5	2.0	1.1	2.5	2.2
RCWL1218	3.2 + 0.10 - 0.20	4.6 ± 0.15	$0.55 \pm 0.05$	0.45 ± 0.2	0.4 ± 0.2	1.05	4.9	1.9	1.25	4.8	1.9
RCWL2010	5.0 ± 0.15	2.5 ± 0.15	0.6 ± 0.1	$0.6 \pm 0.2$	$0.6 \pm 0.2$	1.0	2.5	3.9	1.2	2.5	3.9
RCWL2512	$6.3 \pm 0.2$	3.15 ± 0.15	$0.6 \pm 0.1$	$0.6 \pm 0.2$	$0.6 \pm 0.2$	1.0	3.2	5.2	1.2	3.2	5.2

#### **TEMPERATURE RISE**



#### **DERATING**





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PERFORMANCE				
TEST	CONDITIONS OF TEST TEST L			
Thermal shock	MIL-STD-202, method 107, -55 °C to +125 °C, 300 cycles at each extreme	$\pm (2.0 \% + 0.005 \Omega) \Delta R$		
Short time overload	2x rated power; duration according the model	$\pm (0.5 \% + 0.005 \Omega) \Delta R$		
High temperature exposure	MIL-STD-202, method 108, 1000 h at T = 125 °C, 0 % power	$\pm$ (2.0 % + 0.005 $\Omega$ ) $\Delta R$		
Temperature cycling	JESD 22, method JA-104, 1000 cycles (-55 °C to +125 °C)	$\pm$ (2.0 % + 0.005 $\Omega$ ) $\Delta R$		
Biased humidity	MIL-STD-202, method 103, 1000 h 85 °C/85 % RH, 10 % x (P x R) <sup>1/2</sup>	$\pm$ (2.0 % + 0.005 $\Omega$ ) $\Delta R$		
Mechanical shock	MIL-STD-202, method 213, condition C, 10 g's, 6 ms (half sine), 3 directions	$\pm (0.5 \% + 0.005 \Omega) \Delta R$		
Vibration	MIL-STD-202, method 204, 5 g's, 20 min, 12 cycles, 3 directions, 10 Hz to 2000 Hz	$\pm (0.5 \% + 0.005 \Omega) \Delta R$		
Operational life	MIL-STD-202, method 108, 1000 h at T = 125 °C at rated power	$\pm$ (2.0 % + 0.005 $\Omega$ ) $\Delta R$		
Resistance to solder heat	MIL-STD-202, method 210, +260 °C solder, 10 s to 12 s dwell, 25 mm/s emergence	$\pm (1.0 \% + 0.005 \Omega) \Delta R$		
Moisture resistance	MIL-STD-202, method 106, 0 % power, 7a and 7b not required	$\pm$ (2.0 % + 0.005 $\Omega$ ) $\Delta R$		

PACKAGING									
MODEL		REEL	REEL						
MODEL	TAPE WIDTH	DIAMETER	PITCH	PIECES/REEL	CODE				
RCWL0402	8 mm/punched paper	180 mm/7"	2 mm	10 000	EA				
RCWL0603	8 mm/punched paper	180 mm/7"	4 mm	5000	EA				
RCWL0805	8 mm/punched paper	180 mm/7"	4 mm	5000	EA				
RCWL1206	8 mm/punched paper	180 mm/7"	4 mm	5000	EA				
RCWL1210	12 mm/punched paper	180 mm/7"	4 mm	5000	EA				
RCWL1218	12 mm/embossed plastic	180 mm/7"	4 mm	4000	EA				
RCWL2010	12 mm/embossed plastic	180 mm/7"	4 mm	4000	EA				
RCWL2512	12 mm/embossed plastic	180 mm/7"	8 mm	2000	EA				

#### Note

• Embossed carrier tape per EIA-481-1A



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RCWL0805R200JMTA RCWL1206R100JMTA RCWL2512R680JNTA RCWL0805R100JMTA
<u>RCWL1206R240JMTA</u> <u>RCWL1206R510JNTA</u> <u>RCWL2512R470JNTA</u> <u>RCWL2512R510JNTA</u> <u>RCWL2512R750JNTA</u>
$ \underline{RCWL0603R180JQEA} \ \ \underline{RCWL1206R220JMEA} \ \ \underline{RCWL0603R820JNTA} \ \ \underline{RCWL0805R680JNTA} \ \ \underline{RCWL0805R750JNTA} $
<u>RCWL1206R180JMTA</u> <u>RCWL1206R330JMTA</u> <u>RCWL2512R330JNEA</u> <u>RCWL0805R820JNTA</u> <u>RCWL1206R120JMTA</u>
$ \underline{RCWL0402R220JTEA} \ \ \underline{RCWL0402R240JTEA} \ \ \underline{RCWL0402R270JTEA} \ \ \underline{RCWL0402R3300JTEA} \ \ \underline{RCWL0402R3300JTEA} $
RCWL0402R360JTEA RCWL0402R390JTEA RCWL0402R430JTEA RCWL0402R470JQEA RCWL0402R510JQEA
RCWL0402R560JQEA RCWL0402R620JQEA RCWL0402R680JQEA RCWL0402R750JQEA
RCWL0402R820JQEA RCWL0402R910JQEA RCWL0603R110JQEA RCWL0603R120JQEA RCWL0603R130JQEA
RCWL0603R150JQEA RCWL0603R160JQEA RCWL0603R200JQEA RCWL0603R270JQEA
RCWL0603R300JQEA RCWL0603R360JQEA RCWL0603R390JQEA RCWL0603R430JQEA RCWL0603R510JNEA
RCWL0603R620JNEA RCWL0603R680JNEA RCWL0603R910JNEA RCWL0805R110JMEA
RCWL0805R120JMEA RCWL0805R130JMEA RCWL0805R150JMEA RCWL0805R160JMEA RCWL0805R180JMEA
RCWL0805R220JMEA RCWL0805R240JMEA RCWL0805R270JMEA RCWL0805R330JMEA
<u>RCWL0805R360JMEA</u> <u>RCWL0805R390JMEA</u> <u>RCWL0805R430JMEA</u> <u>RCWL0805R510JNEA</u> <u>RCWL0805R560JNEA</u>
RCWL0805R620JNEA RCWL0805R750JNEA RCWL0805R820JNEA RCWL0805R910JNEA
<u>RCWL1206R240JMEA</u> <u>RCWL1206R270JMEA</u> <u>RCWL1206R300JMEA</u> <u>RCWL1206R330JMEA</u> <u>RCWL1206R360JMEA</u>
RCWL1206R390JMEA RCWL1206R430JMEA RCWL1206R470JNEA RCWL1206R510JNEA
<u>RCWL1206R560JNEA</u> <u>RCWL1206R620JNEA</u> <u>RCWL1206R680JNEA</u> <u>RCWL1206R750JNEA</u> <u>RCWL1206R820JNEA</u>
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