Tel : 82-32-817-4325
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Resistors And
Resistive Applications

RQL

Ceramic Encased Wire Wound Resistors

RoHS COMPLIANT

GENERAL SPECIFICATIONS

Model	Wattage Rating	Resistance Range(Ω)			Resistance Tolerance
		Glass Fiber Core (GC)	Ceramic Core (CC)	Metal Oxide Film (MO)	
RQL 10	10W	0.5~1.5K	0.3~10K	10~75K	R≤ 1Ω :±10% R>1Ω :±5%
RQL 15	15W	1.0~1.5K	0.5~12K	10~100K	
RQL 20	20W	1.0~2.0K	0.5~15K	10~100K	
RQL 25	25W	1.0~2.0K	-	-	
RQL 30	30W	1.5~4.0K	-	-	
RQL 40	40W	2.0~5.0K	-	-	

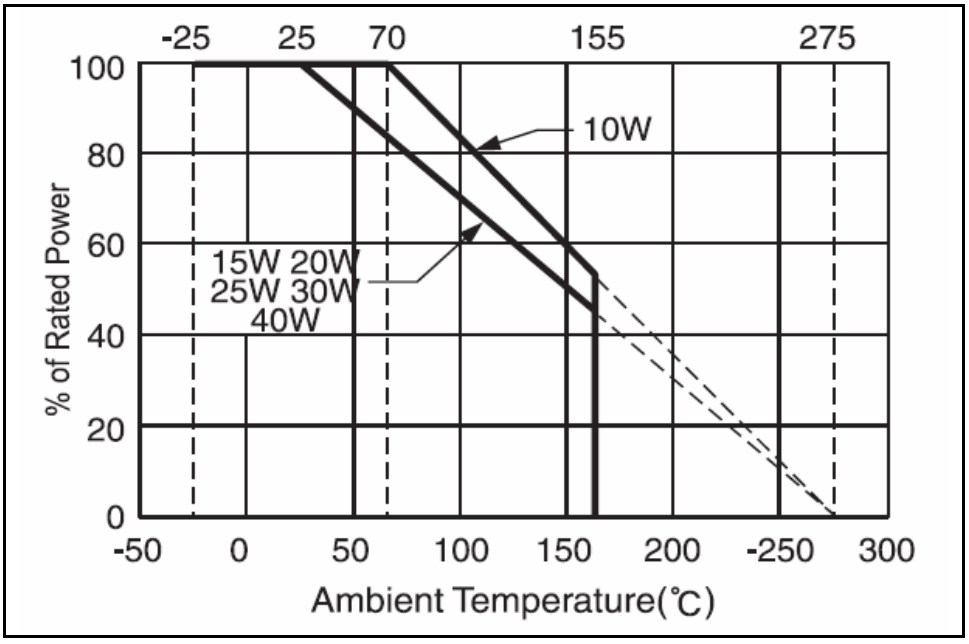
CHARACTERISTICS

Values in [ ] mean change in Ω after test

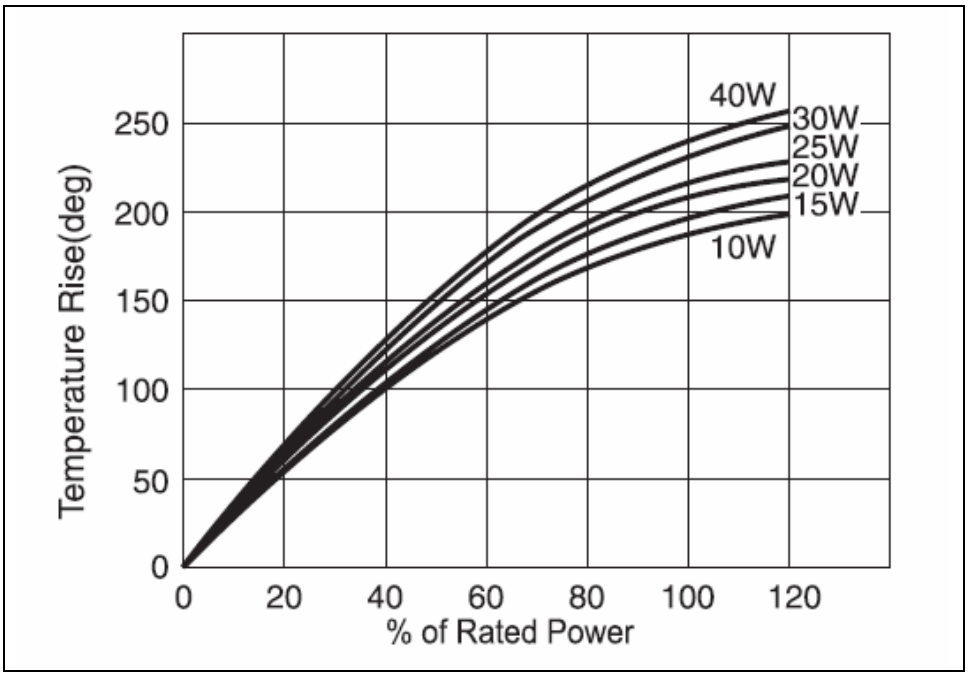
Temperature Range		-25℃~155℃
Insulation Resistance		DC500V, 20MΩ Minimum
Dielectric Withstanding Voltage		AC 1500V for 1minute
Temp. Coefficient		Less than 1Ω :490~1300ppm/℃. More than 1Ω :490ppm/℃
Short Time Overload	Δ R±[2%+0.05Ω]	10 Times rated power for 5 sec.
Moisture Resistance	Δ R±[3%+0.05Ω]	DC 100V, 40℃ 95% RH, 500h
Thermal Shock	Δ R±[2%+0.05Ω]	Power Rating 30 min., -25℃ 15min.
Moisture Load Life	Δ R±[3%+0.05Ω]	40℃ 95% RH, 10% Power Rating 90min.-ON
Load Life	Δ R±[5%+0.05Ω]	Power Rating 90min.-ON, 30min.-OFF
Solderability		75% Coverage minimum

Note : Applied voltage : AC RMS voltage

DERATING CURVE



SURFACE TEMPERATURE INCREASE VERSUS POWER LOAD



RQL(g)DIMENSIONS

Power Rating(W)	Dimensions(mm)													
	L1	L2	L3	W1	W2	H1	H2	H3	H4	P1	(E)	G1	t1	h1Φ
10	48±1.5	25±1	4.5	9.5±1.0	5	9.5±1.0	6+1.5	0.8	16.5+1.5,-1.0	2.5	36.0-2	5.5+2,-1	0.4	2
15	48±1.5	25±1	7	12.5±1.2	6	12.5±1.2	7.5+2	1.0	21+2.0,-1.0	3	34.0-2	6.5+2,-1	0.5	2.5
20	63.5±2	25±1	7	12.5±1.2	6	12.5±1.2	7.5+2	1.0	21+2.0,-1.0	3	48.0-3	6.5+2,-1	0.5	2.5
25	63.5±2	25±	8	16±1.2	7.5	16±1.2	12+2	1.0	29+2.5,-1.5	3.5	46.5-3	8-2.5,-1	0.5	3
30	75±2.5	40±1.2	10	19±1.5	7.5	19±1.5	10+2	1.0	30+2.5,-1.5	3.5	56.0-4	9+3,-1	0.5	3
40	90±2.5	40±1.2	10	19±1.5	7.5	19±1.5	10+2	1.0	30+2.5,-1.5	3.5	71.0-4	9+3,-1	0.5	3

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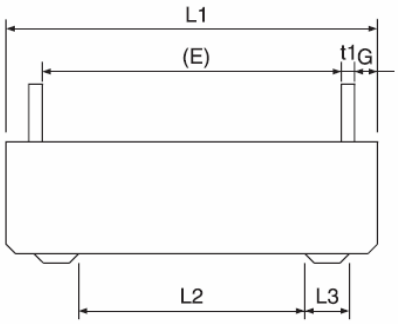

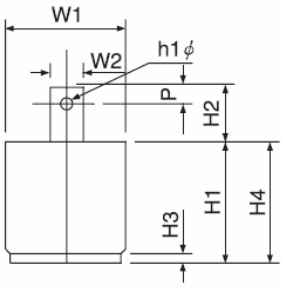

RQL(t) DIMENSIONS

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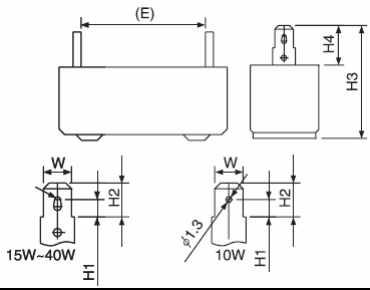

Power Rating(W)	Dimensions(mm)							
	H1	H2	H3	H4	W	R	t	(E)
10	3.2±0.1	6.35±0.1	20.8+2,-1	10+1.5	4.75±0.1	Φ13	0.5±0.2	36
15	3.2±0.1	6.35±0.1	25.5+2,-1	12+2	4.75±0.1	0.65±0.2	0.5±0.2	34
20	3.2±0.1	6.35±0.1	25.5+2,-1	12+2	4.75±0.1	0.65±0.2	0.5±0.2	48.0
30	4±0.1	7.95±0.1	35.5+2,-1	15.5+2	6.35±0.1	0.825±0.2	0.8±0.2	55.5
40	4±0.1	7.95±0.1	35.5+2,-1	15.0+2	6.35±0.1	0.825±0.2	0.8±0.2	70.5

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RQL(b,s) DIMENSIONS

Power Rating(W)		Dimensions(mm)										
		L1	L2	L3	W3	P2	(P3)	P4	G1	G2	t2	h2Φ
10	b	48±1.5	24	-	12±0.2	6	8	-	5.5+2,-1	-	0.6	4
15	b	48±1.5	24	-	12±0.2	6	8	-	6.5+2,-1	-	0.8	4
	s	56±2	-	43				28-1~-2.5		8±2	0.6	
20	b	63.5±2	24	-	12±0.2	6	8	-	6.5+2,-1	-	0.8	4
	s		-	43				28-1~+2.5		-	0.6	
25	b	63.5±2	24	-	12±0.2	6	10	-	8+2.5,-1	-	0.8	4.2
30	b	78±2.5	39	-	18±0.2	8	10	-	9+3,-1	-	0.8	4.2
	s	82.5±2.5	-					39-1.5~+3		7.5±2	0.8	
40	b	90±2.5	39	-	18±0.2	8	10	-	9+3,-1	-	0.8	4.2
	s		-	64				39-1.5~+3		-	0.8	

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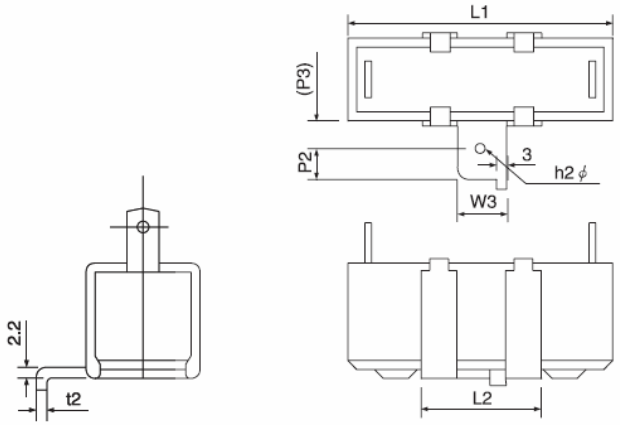

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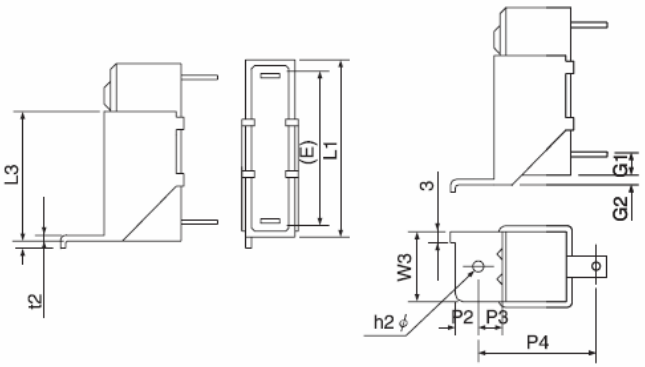

ORDERING PROCEDURE EXAMPLE