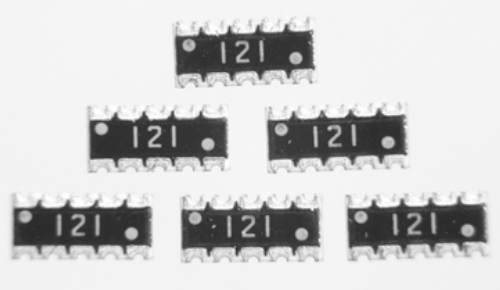
Features:

- Thick film resistor element
- Zero ohm available
- Auto-placement capability
- Multiple circuit types available
- Ideal SMD substitute for leaded networks



Electrical Specifications

Type / Code / # of Elements / Circuit Type	Power Rating (per element) @ 70ºC	Maximum Working Voltage (1)	Maximum Overload Voltage	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance		
					1%	2%	5%
RACF102D	0.063W	25V	50V	±650 ppm/ºC ±250 ppm/ºC	3 - <10 10 - 1M	3 - <10 10 - 1M	3 - <10 10 - 1M
RACF104D	0.063W	25V	50V	±400 ppm/ºC ±200 ppm/ºC	1 - <10 10 - 1M	1 - <10 10 - 1M	1 - <10 10 - 1M
RACF164D	0.063W	50V	100V	±200 ppm/ºC	1 - 1M	1 - 10M	1 - 10M
RACF324D	0.125W	200V	400V	±200 ppm/ºC	22 - 1M	-	10 - 1M
RACF408M	0.063W	25V	50V	±200 ppm/ºC	-	-	22 - 1M
RACF648N	0.063W	50V	100V	±200 ppm/ºC	-	-	22 - 1M
RACF648R	0.063W	50V	100V	±200 ppm/ºC	-	-	22 - 1M

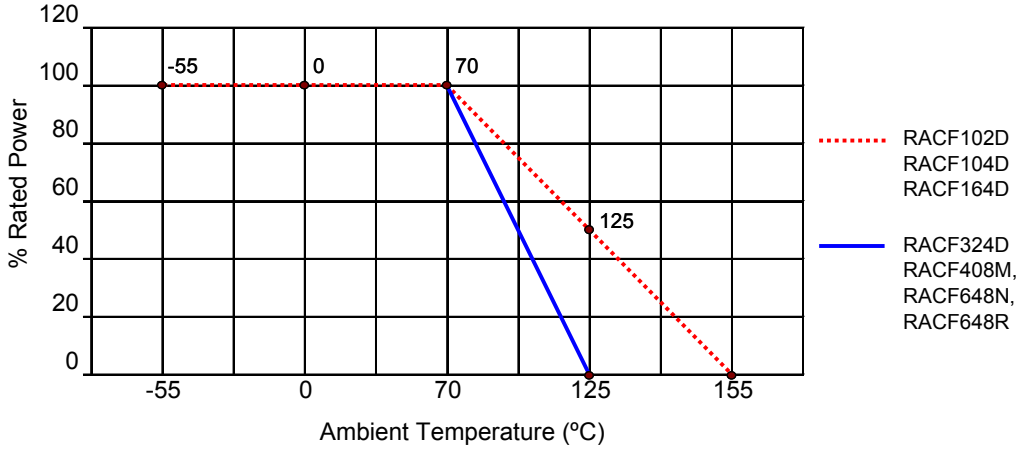
(1) Lesser of √PR or maximum working voltage.

Performance Characteristics

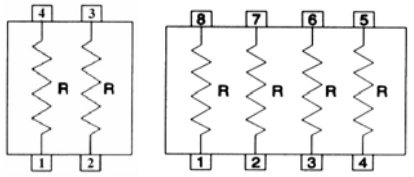
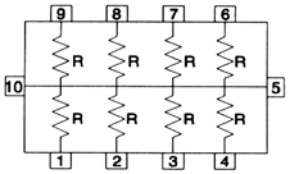
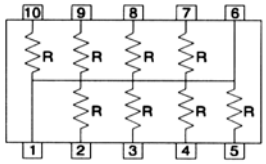
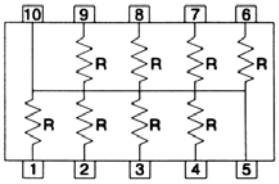
Test	Test Results (JIS C 5202)
Load Life in Moisture	±3%
Temperature cycle	±1%
Load Life	±3%
Resistance to Soldering heat	±1%
Terminal Adhesion	±1%
Short Time Overload	±2%

Operating Temperature Range: RACF102D, RACF104D, RACF164D: -55ºC to 155ºC
All other types: -55ºC to 125ºC

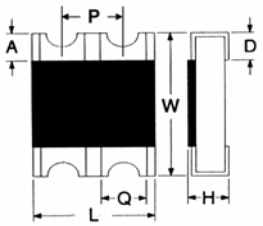
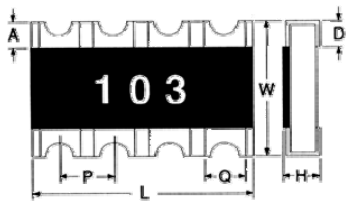
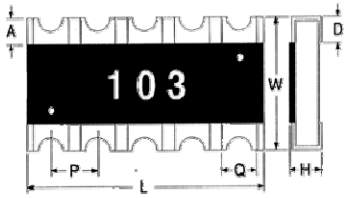
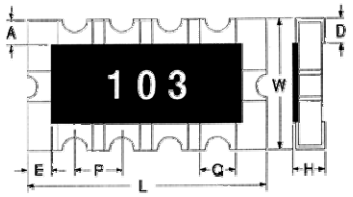
Power Derating Curve:



Schematics

Isolated Circuit - D	Bussed Circuit - M	Bussed Circuit - N	Bussed Circuit - R
			

Terminations

2 Resistors / 4 Terminations (D)	4 Resistors / 8 Terminations (D)	8 Resistors / 10 Terminations (N/R)	8 Resistors / 10 Terminations (M)
			

Mechanical Specifications

Type / Code / # of Elements / Circuit Type	L Body Length	W Body Width	H Body Height	P Element Spacing	Q Termination Width	D Bottom Termination	A Top Termination	E End Termination	Unit
RACF102D	0.039 ± 0.004 1.00 ± 0.10	0.039 ± 0.004 1.00 ± 0.10	0.012 ± 0.004 0.30 ± 0.10	0.020 0.50	0.012 ± 0.004 0.30 ± 0.10	0.010 ± 0.004 0.25 ± 0.10	0.007 ± 0.004 0.18 ± 0.10	-	inches mm
RACF104D	0.079 ± 0.004 2.00 ± 0.10	0.039 ± 0.004 1.00 ± 0.10	0.016 ± 1.000 0.40 ± 0.10	0.020 0.50	0.012 ± 0.004 0.30 ± 0.10	0.010 ± 0.004 0.25 ± 0.10	0.006 ± 0.004 0.15 ± 0.10	-	inches mm
RACF164D	0.126 ± 0.008 3.20 ± 0.20	0.063 ± 0.006 1.60 ± 0.15	0.024 ± 0.006 0.60 ± 0.15	0.031 0.80	0.016 ± 0.008 0.40 ± 0.20	0.016 ± 0.008 0.40 ± 0.20	0.012 ± 0.008 0.30 ± 0.20	-	inches mm
RACF324D	0.200 ± 0.008 5.08 ± 0.20	0.118 ± 0.008 3.00 ± 0.20	0.024 ± 0.004 0.60 ± 0.10	0.050 1.27	0.031 ± 0.004 0.80 ± 0.10	0.020 ± 0.008 0.50 ± 0.20	0.022 ± 0.008 0.55 ± 0.20	-	inches mm
RACF408M	0.157 ± 0.008 4.00 ± 0.20	0.083 ± 0.008 2.10 ± 0.20	0.024 ± 0.004 0.60 ± 0.10	0.031 0.80	0.020 ± 0.008 0.50 ± 0.20	0.016 ± 0.008 0.40 ± 0.20	0.010 ± 0.008 0.25 ± 0.20	0.012 ± 0.008 0.30 ± 0.20	inches mm
RACF648N	0.252 ± 0.008 6.40 ± 0.20	0.122 ± 0.008 3.10 ± 0.20	0.024 ± 0.004 0.60 ± 0.10	0.050 1.27	0.028 ± 0.008 0.70 ± 0.20	0.020 ± 0.008 0.50 ± 0.20	0.014 ± 0.006 0.35 ± 0.15	-	inches mm
RACF648R	0.252 ± 0.008 6.40 ± 0.20	0.122 ± 0.008 3.10 ± 0.20	0.024 ± 0.004 0.60 ± 0.10	0.050 1.27	0.028 ± 0.008 0.70 ± 0.20	0.020 ± 0.008 0.50 ± 0.20	0.014 ± 0.006 0.35 ± 0.15	-	inches mm

How to Order

1	2	3	4	5	6	7	8	9	10	11	12	13	14
R	A	C	F	1	6	4	D	J	T	1	0	K	0

Product Series	
RACF	Concave RoHS

Code	Power
102D	0.063W
104D	0.063W
164D	0.063W
324D	0.125W
408M	0.063W
648N	0.063W
648R	0.063W

D = Isolated
M, N, R = Bussed

Tolerance		
Code	Tol	Value
F	1%	E24, E96
G	2%	E24
J	5%	
Z	jumper	

Packaging			
Code	Description	Size	Quantity
T	Reel - Paper Tape	102D, 104D	10,000
		164D	5,000
	Reel - Plastic Tape	324D, 408M 648N, 648R	4,000

Resistance Value
Four characters with the multiplier used as the decimal holder.
1 ohm = 1R00 100 Kohm = 100K 1 Mohm = 1M00 Zero ohm jumper = 0R00

Legacy Part Number (before January 3, 2011):

SEI Type	Code	Number of Elements	Circuit Type	Nominal Resistance	Tolerance	Packaging
RAC	16	4	D	10K	5%	R

Type	Description
RAC	Standard
RACF	RoHS

Code
10
16
32
40
64

Elements
2
4
8

Circuit Type
D = Isolated
M = Bussed
N = Bussed
R = Bussed

Tol	Values
1%	E24 E96
2%	E24
5%	E24

Types	Pkg Qty	Description	Code
102, 104	10,000	Paper Tape and Reel	R
164	5,000		
324, 408, 648	4,000	Plastic Tape and Reel	