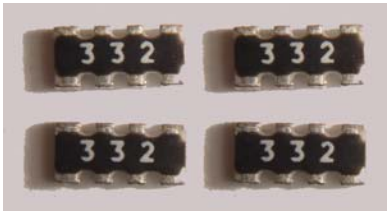
Features:

- Thick film resistor element
- Multiple circuit types available
- Ideal SMD substitute for leaded networks
- RoHS compliant / lead-free
- Auto-placement capability
- Square corner construction standard
- Zero ohm jumper available
- RAVF 324D is standard with scalloped corner

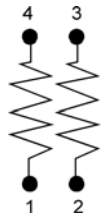
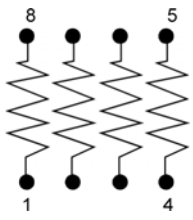
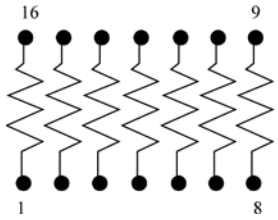
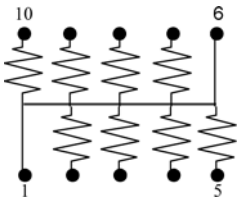
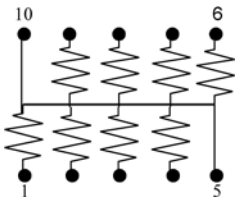


Electrical Specifications

Type / Code / # of Elements / Circuit Type	Power Rating (per element) @ 70ºC	Power Rating (Entire Array) @ 70ºC	Maximum Working Voltage (1)	Maximum Overload Voltage	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance	
						1%	2%, 5%
RAVF052D	0.031W	0.063W	12.5V	25V	±200 ppm/ºC ±300 ppm/ºC ±500 ppm/ºC	- - -	1K - 1M 10 - 1K 3 - 10
RAVF102D	0.063W	0.125W	25V	50V	±200 ppm/ºC ±300 ppm/ºC	10 - 1M -	10 - 1M 1 - 9.9
RAVF104D	0.063W	0.250W	25V	50V	±200 ppm/ºC ±300 ppm/ºC	10 - 1M -	10 - 1M 1 - 9.9
RAVF162D	0.063W	0.125W	50V	100V	±200 ppm/ºC	10 - 1M	1 - 10M
RAVF164D	0.063W	0.250W	50V	100V	±200 ppm/ºC	10 - 1M	1 - 10M
RAVF168D	0.063W	0.500W	25V	50V	±200 ppm/ºC ±250 ppm/ºC	10 - 1M -	- 1 - 1M
RAVF324D	0.125W	0.250W	200V	400V	±200 ppm/ºC	22 - 1M	10 - 1M
RAVF328N	0.063W	0.500W	25V	50V	±200 ppm/ºC	-	22 - 1M
RAVF328R	0.063W	0.500W	25V	50V	±200 ppm/ºC	-	22 - 1M

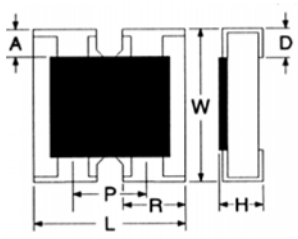
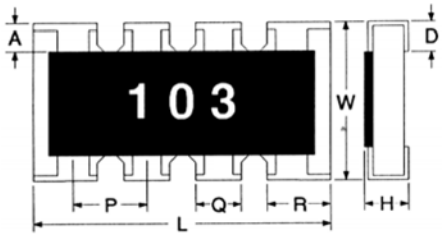
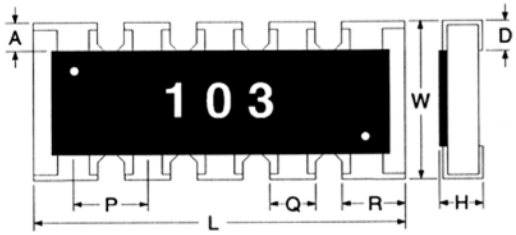
(1) Lesser of √PR or maximum working voltage.

Schematics

Isolated Circuit - 2D	Isolated Circuit - 4D	Isolated Circuit - 8D	Bussed Circuit - N	Bussed Circuit - R
				

This specification may be changed at any time without prior notice
Please confirm technical specifications before you order and/or use.

Terminations

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

Mechanical Specifications

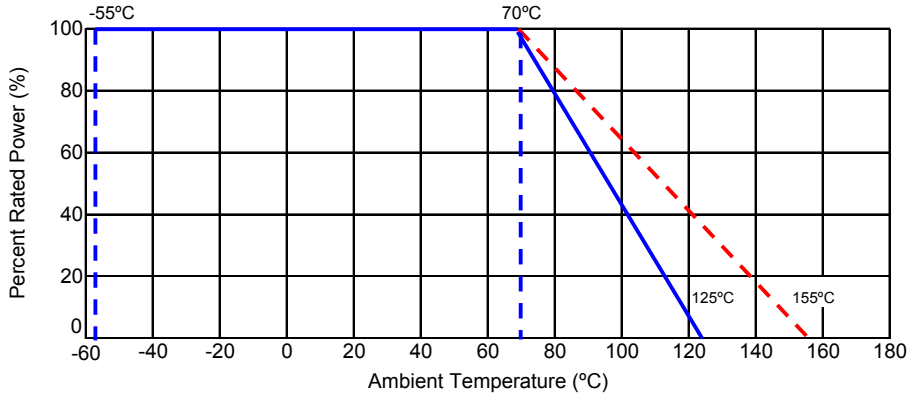
Type / Code / # of Elements / Circuit Type	L Body Length	W Body Width	H Body Height	P Element Spacing	Q Termination Width	R Termination Width	D Bottom Termination	A Top Termination	Unit
RAVF052D	0.031 ± 0.004 0.80 ± 0.10	0.024 ± 0.004 0.60 ± 0.10	0.012 ± 0.002 0.30 ± 0.05	-0.020 ± 0.006 -0.50 ± 0.15	- -	0.014 ± 0.004 0.35 ± 0.10	0.006 ± 0.002 0.15 ± 0.05	0.006 ± 0.004 0.15 ± 0.10	Inches mm
RAVF102D	0.039 ± 0.004 1.00 ± 0.10	0.039 ± 0.004 1.00 ± 0.10	0.014 ± 0.004 0.35 ± 0.10	0.026 ± 0.002 0.65 ± 0.05	- -	0.013 ± 0.002 0.33 ± 0.05	0.010 ± 0.002 0.25 ± 0.05	0.006 ± 0.004 0.15 ± 0.10	Inches mm
RAVF104D	0.079 ± 0.008 2.00 ± 0.20	0.039 ± 0.006 1.00 ± 0.15	0.014 ± 0.006 0.35 ± 0.15	0.020 ± 0.006 0.50 ± 0.15	0.012 ± 0.004 0.30 ± 0.10	0.016 ± 0.004 0.40 ± 0.10	0.010 ± 0.004 0.25 ± 0.10	0.008 ± 0.004 0.20 ± 0.10	Inches mm
RAVF162D	0.063 ± 0.006 1.60 ± 0.15	0.063 ± 0.006 1.60 ± 0.15	0.020 ± 0.006 0.50 ± 0.15	0.031 ± 0.002 0.80 ± 0.05	- -	0.024 ± 0.006 0.60 ± 0.15	0.012 ± 0.006 0.30 ± 0.15	0.012 ± 0.006 0.30 ± 0.15	Inches mm
RAVF164D	0.126 ± 0.008 3.20 ± 0.20	0.063 ± 0.008 1.60 ± 0.20	0.020 ± 0.004 0.50 ± 0.10	0.031 ± 0.002 0.80 ± 0.05	0.020 ± 0.004 0.50 ± 0.10	0.026 ± 0.004 0.65 ± 0.10	0.012 ± 0.006 0.30 ± 0.15	0.012 ± 0.008 0.30 ± 0.20	Inches mm
RAVF168D	0.157 ± 0.008 4.00 ± 0.20	0.063 ± 0.006 1.60 ± 0.15	0.016 ± 0.004 0.40 ± 0.10	0.020 ± 0.006 0.50 ± 0.15	0.010 ± 0.004 0.25 ± 0.10	0.015 ± 0.004 0.38 ± 0.10	0.012 ± 0.008 0.30 ± 0.20	0.012 ± 0.008 0.30 ± 0.20	Inches mm
RAVF324D	0.200 ± 0.008 5.08 ± 0.20	0.122 ± 0.008 3.10 ± 0.20	0.022 ± 0.004 0.55 ± 0.10	0.050 ± 0.004 1.27 ± 0.10	0.031 ± 0.008 0.80 ± 0.20	- -	0.012 ± 0.008 0.30 ± 0.20	0.020 ± 0.008 0.50 ± 0.20	Inches mm
RAVF328N	0.126 ± 0.006 3.20 ± 0.15	0.063 ± 0.006 1.60 ± 0.15	0.022 ± 0.004 0.55 ± 0.10	0.025 ± 0.002 0.64 ± 0.05	0.013 ± 0.006 0.34 ± 0.15	0.019 ± 0.006 0.49 ± 0.15	0.010 ± 0.006 0.25 ± 0.15	0.012 ± 0.008 0.30 ± 0.20	Inches mm
RAVF328R	0.126 ± 0.006 3.20 ± 0.15	0.063 ± 0.006 1.60 ± 0.15	0.022 ± 0.004 0.55 ± 0.10	0.025 ± 0.002 0.64 ± 0.05	0.013 ± 0.006 0.34 ± 0.15	0.019 ± 0.006 0.49 ± 0.15	0.010 ± 0.006 0.25 ± 0.15	0.012 ± 0.008 0.30 ± 0.20	Inches mm

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%

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Power Derating Curve:



How to Order

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

Product Series	
RAVF	Convex RoHS

Size	Power
052D	0.031W
102D	0.063W
104D	0.063W
162D	0.063W
164D	0.063W
168D	0.063W
324D	0.125W
328N	0.063W
328R	0.063W

D = Isolated
N = Bussed
R = Bussed

Tolerance(1)		
Code	Tol	Value
F	1%	E24
G	2%	
J	5%	
Z	jumper	

Packaging			
Code	Description	Size	Quantity
T	Tape and Reel	052D, 102D, 104D	10,000
		162D, 164D, 168D 328N, 328R	5,000
		324D	4,000

Note (1): 1% tolerance is available in E24 values only.
E96 values are generally not available. Contact factory for details.

Resistance Value
Four characters with the multiplier used as the decimal holder.
10 ohm = 10R0 10.2 Kohm = 10K2 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
RAVF	16	4	D	10K	5%	R

Type	Description
RAVF	Convex

Code
05
10
16
32

Elements
2
4
8

Circuit Type
D = Isolated
N = Bussed
R = Bussed

Tolerance	Values
1%	E24
2%	E24
5%	E24

SEI Types	Pkg Qty	Description	Code
052D, 102D, 104D	10,000	tape and reel	R
162D, 164D, 168D, 328N, 328R	5,000		
324D	4,000		

This specification may be changed at any time without prior notice
Please confirm technical specifications before you order and/or use.