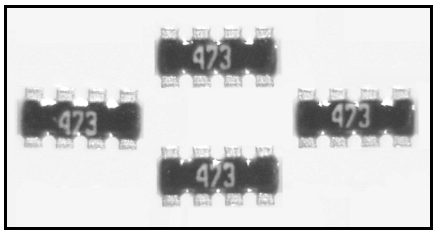
RAV/RAF Series — Chip Resistor Array Convex & Flat Terminations



Features

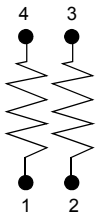
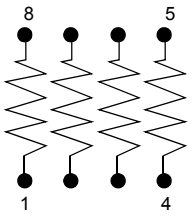
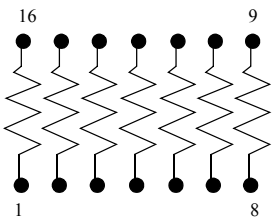
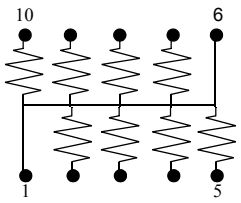
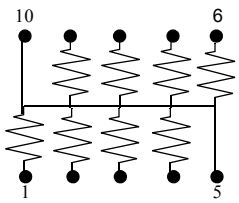
- Thick film resistor element
- Multiple circuit types available
- Flat termination for better solderability, reliability and lower cost.
- Ideal SMD substitute for leaded networks
- Auto-placement capability
- Square corner construction
- Available without square corner, contact factory
- Zero ohm jumper available.

Electrical Specifications

Type	Power Rating (per element) @ 70°C	Maximum Working Voltage*	Maximum Overload Voltage	Resistance Temperature Coefficient	Ohmic Range and Tolerance		
					1%	2%	5%
RAF10-2D	0.063W	25	50	±200 ppm/°C	10Ω – 1M	–	10Ω – 1M
RAF10-4D	0.063W	25	50	±200 ppm/°C	10Ω – 1M	–	10Ω – 1M
RAV10-2D	0.063W	25	50	±250 ppm/°C	–	–	10Ω – 1M
RAV10-4D	0.063W	25	50	±250 ppm/°C	–	–	10Ω – 1M
RAV16-2D	0.063W	50	100	±200 ppm/°C	10Ω – 1M	–	10Ω – 1M
RAV16-4D	0.063W	50	100	±200 ppm/°C	22Ω – 1M	10Ω – 1M	10Ω – 1M
RAV16-8D	0.063W	25	50	±200 ppm/°C	10Ω – 1M	-	10Ω – 1M
RAV32-4D	0.125W	200	400	±200 ppm/°C	22Ω – 1M	10Ω – 1M	10Ω – 1M
RAV32-8N	0.063W	25	50	±200 ppm/°C	–	–	22Ω – 1M
RAV32-8R	0.063W	25	50	±200 ppm/°C	–	–	22Ω – 1M

*Lesser of √PR or maximum working voltage.

Schematics

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

How to Order

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

SEI Type
RAV
RAF

Code
10
16
32

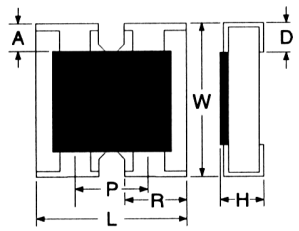
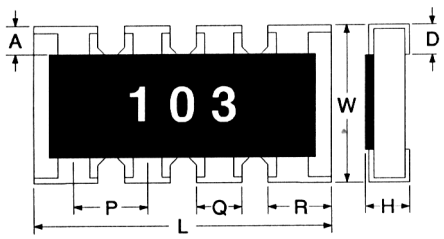
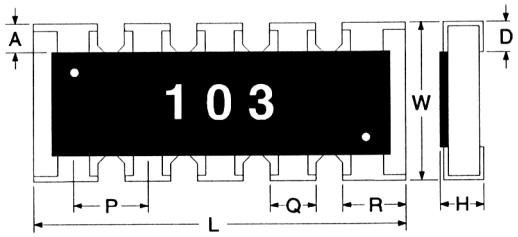
Elements
2
4
8

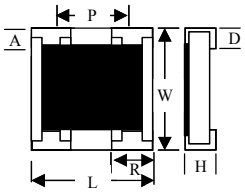
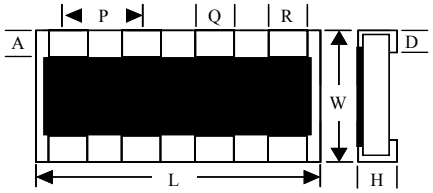
Circuit Type
D=Isolated
M=Bussed
N=Bussed
R=Bussed

Tolerance	Values
1%	E24
2%	E24
5%	E24

Code	Type	Description	Qty
R	10	Paper	10,000
R	16	Paper	5,000
R	32	Emboss	4,000

RAV/RAF Series — Chip Resistor Array Convex & Flat Terminations

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

RAF - 2 Resistors / 4 Terminations (D)	RAF - 4 Resistors / 8 Terminations (D)
	

Mechanical Specifications inches mm

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
RAF10-2D	0.039 ± 0.002 1.0 ± 0.05	0.039 ± 0.004 1.0 ± 0.10	0.016 ± 0.004 0.4 ± 0.10	0.026 ± 0.002 0.65 ± 0.05	-	0.013 ± 0.004 0.33 ± 0.10	0.010 ± 0.004 0.25 ± 0.10	0.006 ± 0.004 0.15 ± 0.10
RAF10-4D	0.079 ± 0.004 2.0 ± 0.10	0.039 ± 0.004 1.0 ± 0.10	0.016 ± 0.004 0.4 ± 0.10	0.020 ± 0.006 0.50 ± 0.15	0.012 ± 0.006 0.30 ± 0.15	0.012 ± 0.004 0.30 ± 0.10	0.014 ± 0.006 0.35 ± 0.15	0.009 ± 0.004 0.22 ± 0.10
RAV10-2D	0.039 ± 0.004 1.00 ± 0.10	0.039 ± 0.004 1.0 ± 0.10	0.014 ± 0.002 0.35 ± 0.05	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
RAV10-4D	0.079 ± 0.008 2.00 ± 0.20	0.039 ± 0.006 1.00 ± 0.15	0.014 ± 0.004 0.35 ± 0.10	0.020 ± 0.006 0.50 ± 0.15	0.012 ± 0.006 0.30 ± 0.15	0.016 ± 0.006 0.40 ± 0.15	0.010 ± 0.004 0.25 ± 0.10	0.006 ± 0.004 0.15 ± 0.10
RAV16-2D	0.063 ± 0.006 1.60 ± 0.15	0.063 ± 0.006 1.60 ± 0.15	0.020 ± 0.006 0.50 ± 0.10	0.031 ± 0.002 0.80 ± 0.05	-	0.024 ± 0.006 0.60 ± 0.15	0.010 ± 0.004 0.25 ± 0.10	0.012 ± 0.008 0.30 ± 0.20
RAV16-4D	0.126 ± 0.004 3.20 ± 0.10	0.063 ± 0.004 1.60 ± 0.10	0.020 ± 0.004 0.50 ± 0.10	0.031 ± 0.002 0.80 ± 0.05	0.016 ± 0.006 0.40 ± 0.15	0.024 ± 0.006 0.60 ± 0.15	0.010 ± 0.006 0.25 ± 0.15	0.012 ± 0.008 0.30 ± 0.20
RAV16-8D	0.158 ± 0.008 4.0 ± 0.20	0.063 ± 0.006 01.6 ± 0.15	0.016 ± 0.004 0.4 ± 0.10	0.020 ± 0.006 0.50 ± 0.15	0.012 ± 0.004 0.30 ± 0.10	0.016 ± 0.004 0.40 ± 0.10	0.012 ± 0.008 0.30 ± 0.20	0.012 ± 0.008 0.30 ± 0.20
RAV32-4D	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
RAV32-8N	0.126 ± 0.008 3.20 ± 0.20	0.063 ± 0.008 1.60 ± 0.20	0.020 ± 0.004 0.50 ± 0.10	0.025 ± 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
RAV32-8R	0.126 ± 0.008 3.20 ± 0.20	0.063 ± 0.008 1.60 ± 0.20	0.020 ± 0.004 0.50 ± 0.10	0.025 ± 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

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 Range	-55°C to + 125°C