Resistive Product Solutions

Features:

- Thick film resistor element
- Multiple circuit types available
- Ideal SMD substitute for leaded networks
- RoHS compliant and halogen free
- Auto-placement capability
- Square corner construction standard
- Zero ohm jumper available
- RAVF 324D is standard with scalloped corner
- Styles 102D, 104D and 164D are qualified to AEC-Q200

Electrical Specifications							
Type / Code, # of Elements,	Power Rating (W) (per element)	Maximum Working Voltage	Maximum Overload	TCR (ppm/ºC)	Ohmic Range (Ω) and Tolerance	
Circuit Type	@ 70°C	(V) ⁽¹⁾	Voltage (V)		1%	2%, 5%	
				± 500	-	3 - 9.1	
RAVF052D	0.031	12.5	25	± 300	-	10 - 910	
KAVF052D				± 200	-	1K - 1M	
	Jumper: 0.5A			-	-	0.05 max	
	0.063	25	50	± 400	-	1 - 9.1	
RAVF102D	0.003	20	50	± 200	10 - 1M		
	Jumper: 1A				0.025 max	0.05 max	
	0.063	25	50	± 400	-	1 - 9.1	
RAVF104D				± 200	10 - 1M		
	Jumper: 1A				0.025 max	0.05 max	
RAVF162D	0.063	50	100	± 200	10 - 1M	1 - 1M	
KAVF 102D	Jumper: 1A			-	-	0.05 max	
				± 400	-	1 9.1	
RAVF164D	0.063	50	100	± 200	10 - 1M	10 - 1M	
	Jumper: 1A				0.025 max	0.05 max	
	0.063	25	50	± 250	-	1 - 1M	
RAVF168D	0.063	25		± 200	10 - 1M	-	
	Jumper: 1A			-	-	0.05 max	
RAVF324D	0.125	200	400	± 200	22 - 1M	10 - 1M	
RAVF328N	0.063	25	50	± 200	-	22 - 1M	
RAVF328R	0.063	25	50	± 200	-	22 - 1M	

(1) Lesser of $\sqrt{P^*R}$ or maximum working voltage.

Performance Characteristics

Test	Test Result (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%

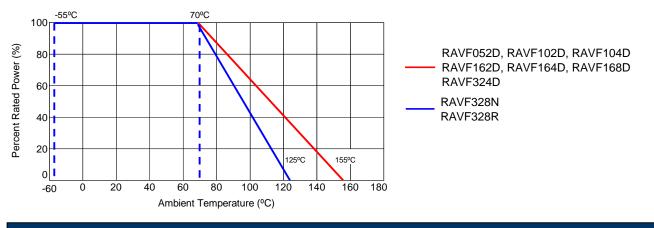
Operating temperature range is -55 °C to +155 °C, except for RAVF328N and RAVF328R

Operating temperature range for RAVF328N and RAVF328R is -55 °C to +125 °C

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Power Derating Curve:



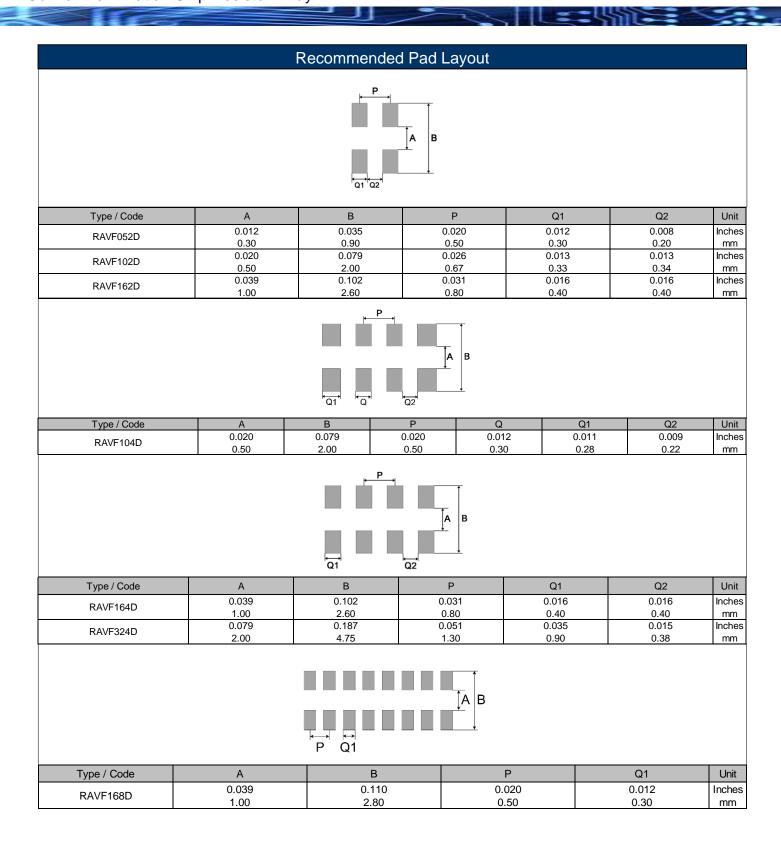
Schematics									
Isolated Circuit - 2D	Isolated Circuit - 4D	Isolated Circuit - 8D	Bussed Circuit - N	Bussed Circuit - R					
		16 9 1 1 8							

Terminations RAVF - 4 Resistors / 8 Terminations (D) RAVF - 2 Resistors / 4 Terminations (D) RAVF - 8 Resistors / 10 Terminations (N/R) Б Ъ h Ъ D D Г П A П П A Г D A. ŧ 103 0 3 w Ц Л - P -Q. R - R-Q

Type / Code		W	н	Р	Q	R	D	A	
# of Elements	Body Length	Body Width	Body Height	Element	Termination	Termination	Bottom	Тор	Unit
Circuit Type	Body Length	Body Width	Body Height	Spacing	Width	Width	Termination	Termination	
RAVF052D	0.031 ± 0.004	0.024 ± 0.004	0.012 ± 0.002	0.020 ± 0.006	-	0.014 ± 0.004	0.006 ± 0.002	0.006 ± 0.004	Inches
RAVF052D	0.80 ± 0.10	0.60 ± 0.10	0.30 ± 0.05	0.50 ± 0.15	-	0.35 ± 0.10	0.15 ± 0.05	0.15 ± 0.10	mm
RAVF102D	0.039 ± 0.004	0.039 ± 0.004	0.014 ± 0.004	0.026 ± 0.039	-	0.013 ± 0.004	0.010 ± 0.039	0.006 ± 0.004	Inches
KAVI 102D	1.00 ± 0.10	1.00 ± 0.10	0.35 ± 0.10	0.67 ± 1.00	-	0.34 ± 0.10	0.25 ± 1.00	0.15 ± 0.10	mm
RAVF104D	0.079 ± 0.008	0.039 ± 0.006	0.014 ± 0.006	0.020 ± 0.006	0.012 ± 0.004	0.017 ± 0.004	0.008 +0.006/-0.004	0.008 ± 0.004	Inches
KAVI 104D	2.00 ± 0.20	1.00 ± 0.15	0.35 ± 0.15	0.50 ± 0.15	0.30 ± 0.10	0.43 ± 0.10	0.20 +0.15/-0.10	0.20 ± 0.10	mm
RAVF162D	0.063 ± 0.006	0.063 ± 0.006	0.020 ± 0.006	0.031 ± 0.002	-	0.024 ± 0.006	0.012 ± 0.006	0.012 ± 0.006	Inches
KAVI 102D	1.60 ± 0.15	1.60 ± 0.15	0.50 ± 0.15	0.80 ± 0.05	-	0.60 ± 0.15	0.30 ± 0.15	0.30 ± 0.15	mm
RAVF164D	0.126 ± 0.008	0.063 ± 0.008	0.020 ± 0.004	0.031 ± 0.008	0.020 ± 0.006	0.024 ± 0.006	0.012 ± 0.008	0.012 ± 0.008	Inches
RAVE 104D	3.20 ± 0.20	1.60 ± 0.20	0.50 ± 0.10	0.80 ± 0.20	0.50 ± 0.15	0.61 ± 0.15	0.30 ± 0.20	0.30 ± 0.20	mm
RAVF168D	0.157 ± 0.008	0.063 ± 0.006	0.016 ± 0.004	0.020 ± 0.006	0.010 ± 0.004	0.015 ± 0.004	0.012 ± 0.008	0.012 ± 0.008	Inches
	4.00 ± 0.20	1.60 ± 0.15	0.40 ± 0.10	0.50 ± 0.15	0.25 ± 0.10	0.38 ± 0.10	0.30 ± 0.20	0.30 ± 0.20	mm
RAVF324D	0.201 ± 0.009	0.122 ± 0.008	0.022 ± 0.006	0.051 ± 0.008	0.031 ± 0.008	0.031 ± 0.008	0.022 ± 0.012	0.020 ± 0.008	Inches
	5.10 ± 0.22	3.10 ± 0.20	0.55 ± 0.15	1.30 ± 0.20	0.80 ± 0.20	0.80 ± 0.20	0.55 ± 0.30	0.50 ± 0.20	mm
RAVF328N	0.126 ± 0.006	0.063 ± 0.006	0.022 ± 0.004	0.025 ± 0.002	0.013 ± 0.006	0.019 ± 0.006	0.010 ± 0.006	0.012 ± 0.008	Inches
	3.20 ± 0.15	1.60 ± 0.15	0.55 ± 0.10	0.64 ± 0.05	0.34 ± 0.15	0.49 ± 0.15	0.25 ± 0.15	0.30 ± 0.20	mm
	0.126 ± 0.006	0.063 ± 0.006	0.022 ± 0.004	0.025 ± 0.002	0.013 ± 0.006	0.019 ± 0.006	0.010 ± 0.006	0.012 ± 0.008	Inches
RAVF328R	3.20 ± 0.15	1.60 ± 0.15	0.55 ± 0.10	0.64 ± 0.05	0.34 ± 0.15	0.49 ± 0.15	0.25 ± 0.15	0.30 ± 0.20	mm

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Resistive Product Solutions

Recommended Pad Layout (cont.)									
Type / Code	А	В	Р	Q1	Q2	Unit			
RAVF328R	0.031 0.80	0.122 3.10	0.025 0.64	0.013 0.34	0.018 0.45	Inches mm			

RoHS Compliance

Stackpole Electronics has joined the worldwide effort to reduce the amount of lead in electronic components and to meet the various regulatory requirements now prevalent, such as the European Union's directive regarding "Restrictions on Hazardous Substances" (RoHS 3). As part of this ongoing program, we periodically update this document with the status regarding the availability of our compliant components. All our standard part numbers are compliant to EU Directive 2011/65/EU of the European Parliament as amended by Directive (EU) 2015/863/EU as regards the list of restricted substances.

RoHS Compliance Status								
Standard Product Series	Description	Package / Termination Type	Standard Series RoHS Compliant	Lead-Free Termination Composition	Lead-Free Mfg. Effective Date (Std Product Series)	Lead-Free Effective Date Code (YY/WW)		
RAVF	Thick Film Surface Mount Chip Resistor Array Convex Terminations	SMD	YES(1)	100% Matte Sn over Ni	Jan-04 (Japan) Jul-04 (Taiwan)	04/01 04/27		

Note (1): RoHS Compliant by means of exemption 7c-I.

"Conflict Metals" Commitment

We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the "conflict region" of the eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely with our own suppliers to verify to the extent possible that the materials and products we supply do not contain metals sourced from this conflict region. As such, we are in compliance with the requirements of Dodd-Frank Act regarding Conflict Minerals.

Compliance to "REACH"

We certify that all passive components supplied by Stackpole Electronics, Inc. are SVHC (Substances of Very High Concern) free and compliant with the requirements of EU Directive 1907/2006/EC, "The Registration, Evaluation, Authorization and Restriction of Chemicals", otherwise referred to as REACH. Contact us for complete list of REACH Substance Candidate List.

Environmental Policy

It is the policy of Stackpole Electronics, Inc. (SEI) to protect the environment in all localities in which we operate. We continually strive to improve our effect on the environment. We observe all applicable laws and regulations regarding the protection of our environment and all requests related to the environment to which we have agreed. We are committed to the prevention of all forms of pollution.

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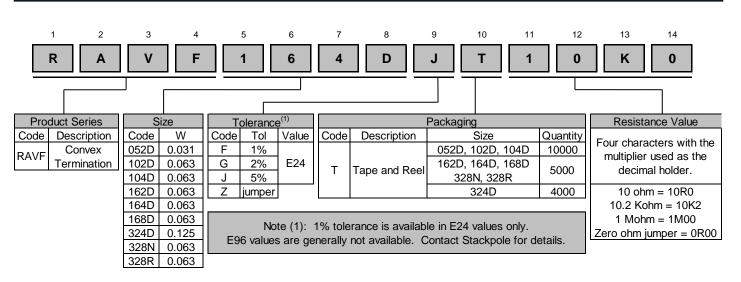
RAVF Series

Convex Termination Chip Resistor Array

Stackpole Electronics, Inc. Resistive Product Solutions

Product Solutions

How to Order



D = Isolated

N = Bussed

R = Bussed

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