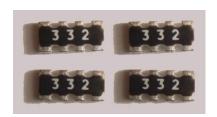
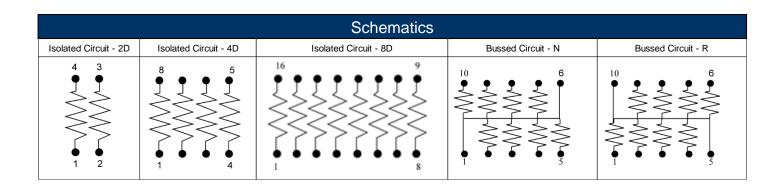
Features:

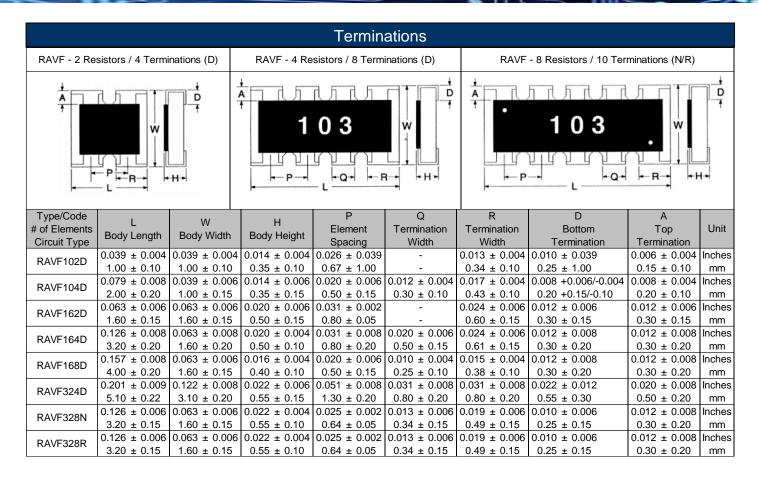
- Square corner construction standard
- RAVF 324D is standard with scalloped corner
- RoHS compliant, REACH compliant and halogen free
- Sizes 102D, 104D and 164D are AEC-Q200 compliant



Electrical Specifications							
Type/Code, # of Elements,	Power Rating (W) (per element)	Maximum Working Voltage	Maximum Overload	TCR (ppm/°C)	Ohmic Range (Ω) and Tolerance	
Circuit Type	@ 70°C	(V) ⁽¹⁾	Voltage (V)		1%	2%, 5%	
	0.063	25	50	± 400	-	1 - 9.1	
RAVF102D	0.003	25	50	± 200	10 -	1M	
	Jumper: 1A				0.025 max	0.05 max	
	0.063 25	0.5	50	± 400	-	1 - 9.1	
RAVF104D		25		± 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	
	0.1	50	100	± 400	-	1 - 9.1	
RAVF164D	0.1	50	100	± 200	10 - 1M	10 - 1M	
	Jumper: 1A				0.025 max	0.05 max	
	0.063	25	50	± 250	-	1 - 1M	
RAVF168D	0.003	25	50	± 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.

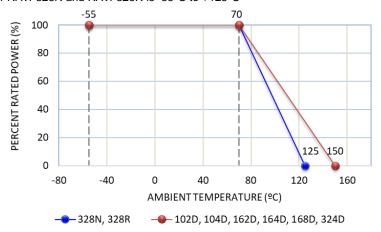




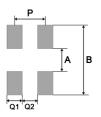
Performance Characteristics						
Test	Test Result (JIS C 5202)					
Load Life in Moisture	±3%					
Temperature cycle	±1%					
Load Life	±3%					
Resistance to Soldering heat	±1%					
Terminal Adhesion	±1%					
Short Time Overload	±2%					

Operating temperature range is -55°C to +155°C, except for RAVF328N and RAVF328N Operating temperature range for RAVF328N and RAVF328R is -55°C to +125°C

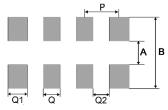
Power Derating Curve:



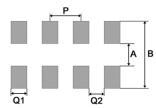
Recommended Pad Layout



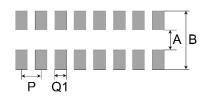
٦	Type/Code	Α	В	Р	Q1	Q2	Unit
	RAVF102D	0.020	0.079	0.026	0.013	0.013	Inches
	RAVE 102D	0.50	2.00	0.67	0.33	0.34	mm
	RAVF162D	0.039	0.102	0.031	0.016	0.016	Inches
	NAVE 102D	1.00	2.60	0.80	0.40	0.40	mm



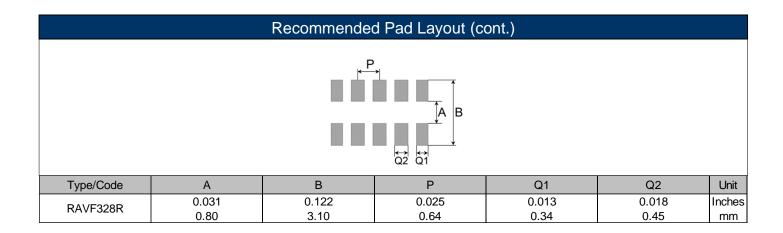
Type/Code	А	В	Р	Q	Q1	Q2	Unit
RAVF104D	0.020	0.079	0.020	0.012	0.016	0.008	Inches
KAVE 104D	0.50	2.00	0.50	0.30	0.40	0.20	mm



Type/Code	A	В	Р	Q1	Q2	Unit
RAVF164D	0.039	0.102	0.031	0.016	0.016	Inches
KAVE 104D	1.00	2.60	0.80	0.40	0.40	mm
RAVF324D	0.079	0.187	0.051	0.035	0.015	Inches
KAVE324D	2.00	4.75	1.30	0.90	0.38	mm



Type/Code	A	В	Р	Q1	Unit
DAV/E169D	0.039	0.110	0.020	0.012	Inches
RAVF168D	1.00	2.80	0.50	0.30	mm



Recommended Solder Profile

This information is intended as a reference for solder profiles for Stackpole resistive components. These profiles should be compatible with most soldering processes. These are only recommendations. Actual numbers will depend on board density, geometry, packages used, etc., especially those cells labeled with "*".

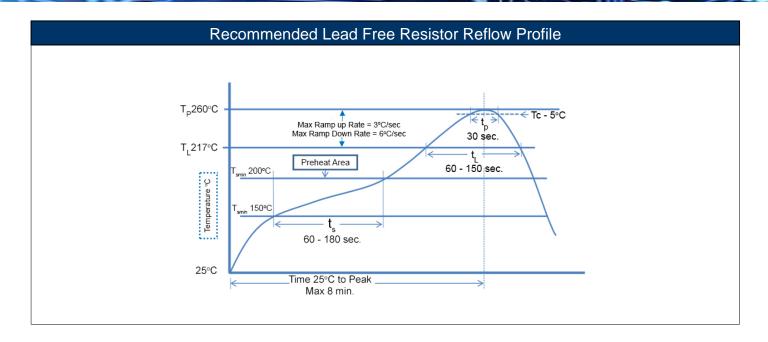
100% Matte Tin / RoHS Compliant Terminations

Soldering iron recommended temperatures: 330°C to 350°C with minimum duration. Maximum number of reflow cycles: 3.

Wave Soldering							
Description	Maximum	Recommended	Minimum				
Preheat Time	80 seconds	70 seconds	60 seconds				
Temperature Diff.	140°C	120°C	100°C				
Solder Temp.	260°C	250°C	240°C				
Dwell Time at Max.	10 seconds	5 seconds	*				
Ramp DN (°C/sec)	N/A	N/A	N/A				

Temperature Diff. = Defference between final preheat stage and soldering stage.

	Convection IR Reflow						
Description	Maximum	Recommended	Minimum				
Ramp Up (°C/sec)	3°C/sec	2°C/sec	*				
Dwell Time > 217°C	150 seconds	90 seconds	60 seconds				
Solder Temp.	260°C	245°C	*				
Dwell Time at Max.	30 seconds	15 seconds	10 seconds				
Ramp DN (°C/sec)	6°C/sec	3°C/sec	*				



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	Convex Termination Thick Film Chip Resistor Array	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

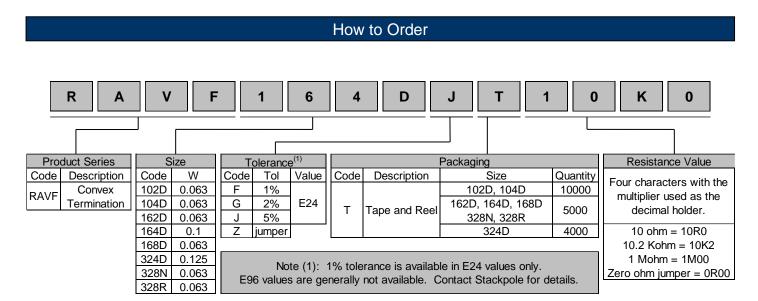
We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the "conflict region" of the eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely 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.



D = Isolated

N = Bussed

R = Bussed