



Stackpole Electronics, Inc.
Resistive Product Solutions

2012 Short Form Product Selector and Cross Reference

Thick Film Resistors

Thin Film Resistors

Current Sensing Resistors

Chip Resistor Arrays

Metal Film and Metal Oxide Resistors

Carbon Film and Carbon Comp Resistors

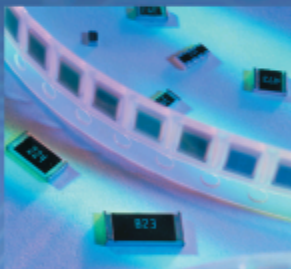
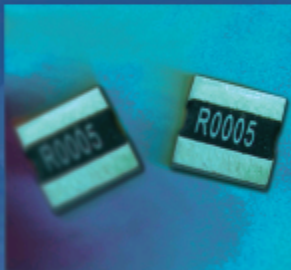
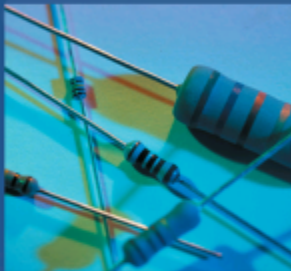
Wirewound Resistors

Single Layer Varistors (MOVs)

Multilayer Varistors

High Frequency Inductors

SMD Power Inductors



ASMG
AKAHANE STACKPOLE
MANUFACTURING GROUP

Part Number Change

Effective January 3rd, 2011

Stackpole Electronics, Inc.

Resistive Product Solutions

Part Number Change Announcement

As part of our continuing efforts to support our customers globally, Stackpole adopted a new part numbering system on January 3rd, 2011. There were three main reasons for the part number change:

1. It was frequently mentioned as an area for improvement in our annual customer survey
2. The legacy part number format, while easy to read and interpret, contains characters such as spaces, percent signs, backslashes and periods that are not accepted in part number fields in many ERP systems
3. The size designation for many surface mount products is based on power ratings that are now obsolete

The following are examples of a thick film chip resistor and a metal film leaded resistor along with our legacy part numbers and the new global part numbers:

Thick Film Chip Resistor:

- Description: chip resistor, 0603, 3.32Kohm, 1%, 1/10W, tape and reel
- Legacy Stackpole part: RMCF 1/16 3.32K 1% R
- Stackpole part: RMCF0603FT3K32

RMCF	0603	F	T	3K32
Stackpole Series	Size	Tolerance	Packaging	Value

Metal Film Leaded Resistor:

- Description: ¼ watt, metal film, leaded resistor, 0.1% tolerance, 25 ppm TCR, 49.9 ohms
- Legacy Stackpole part: RNF ¼ T9 49.9 1% R
- Stackpole part: RNF14BTE49R9

RNF	14	B	T	E	49R9
Stackpole Series	Size	Tolerance	Packaging	TCR	Value

We kept the new part number format as close to the legacy part as possible while eliminating the problems with computer-unfriendly characters and ambiguous size designations.

We provide cross reference services to all our customers, converting all legacy Stackpole part numbers over to the new part number. Simply send us your part number list and we will insert the new Stackpole part.

If you have any questions or concerns, please contact your local Stackpole Sales Representative, your Regional Sales Manager or email us at partnumberchange@seielect.com. We will also post any new information at www.seielect.com.

Surface Mount Chip Resistors and Arrays

Stackpole Series		Description	Package Size	Resistance Range (Ω)	Tolerance (%)	TCR (ppm/°C)	Vishay	KOA	Yageo	IRC	Panasonic
RMCF		General Purpose Thick Film	0201 - 2512	1 - 10M	1, 5	±100 to ±600	CRCW	RK73B RM73 RK 73Z	9C RC	WCR	ERJ
RMCS		Sulfur Resistant Thick Film	0201 - 2512	1 - 10M	1, 5	±100 to ±200	RCA	N/A	N/A	N/A	ERJ-S
RMCG		Gold Barrier Sulfur Impervious	0402 - 2512	1 - 10M	1, 2, 5	±100 to ±600	N/A	N/A	AR	N/A	N/A
HMC		High Value Thick Film	0402 - 2512	10.2M - 100M	1, 5	±200 to ±1500	CRCW_HR	N/A	N/A	HR	N/A
RMCP		General Purpose High Power Thick Film	0402 - 2512	1 - 10M	1, 5	±100, ±200	N/A	N/A	N/A	N/A	N/A
RHC		High Power Thick Film	2512 (2W)	0.1 - 1M	1, 5	±100	N/A	N/A	N/A	N/A	N/A
FCR		Trimmable Thick Film	0402 - 2512	10 - 1M	±5% to ±20%	±200	CRCW-TR	RK73N	TR	N/A	N/A
RGC		Semi-Precision Thick Film	0402 - 2512	10 - 10M	0.5, 1	±50, ±100	CRCW_P	RK73G	RJ	N/A	ERJ_D
RPC		Pulse Withstanding Thick Film	0603 - 2512	1 - 20M	0.5 to 20	±100, ±200	CRCW-IF	SG73	SRC	PWC	ERJP ERJT
RVC		Medium Voltage Thick Film	0402 - 2512	10 - 100M	1, 5	±100 to ±400	N/A	HV73	RV	N/A	N/A
HVC		High Voltage Thick Film	0603 - 3512	10K - 50G	0.5 to 20	±25 to ±300	CRHV	HV73	N/A	HVC	N/A
RAVF		Convex Resistor Arrays	0201x2, 0402x2 0402x4, 0603x2 0603x4, 0603x8	1 - 10M	1, 2, 5	±200 to ±500	CRA/S	CN_K/N CNZ	YC	WCA	EXB
RACF		Concave Resistor Array	0402x2, 0402x4 0603x4, 0603x8 1206x4	1 - 10M	1, 2, 5	±200 to ±650	CRA/P	CN CNB CND_Y CNZ	TC	N/A	EXB
RAF		Flat Termination Chip Resistor Array	0201x2, 0201x4	10 - 1M	5	±200	N/A	CNIH	YC102	N/A	EXB14 EXB18
RAVN		Thin Film Precision Array	0603x4	100 - 33K	0.1, 0.25, 0.5	±10, ±15	ACAL ACAS PR	N/A	N/A	N/A	N/A

Through-Hole Resistors

Stackpole Series		Description	Package Size	Resistance Range (Ω)	Tolerance (%)	TCR (ppm/°C)	Vishay	KOA	Yageo	IRC	NIC
RNF RNMF		Metal Film	1/8W - 2W	1 - 22M	0.05 to 5	± 10 to ± 100	CMF CCF	MF RK	MFR	GP RC	NMR
FRN		Fusing Metal Film	1/6W - 2W	0.22 - 10K	5	± 350	CMF XX-39	N/A	FRM	WFF	N/A
RNS		High Power Metal Film	1W, 2W	10 - 1M	0.5, 1	± 25 to ± 100	CPF SFR16S	N/A	N/A	MFP	N/A
RNV		High Voltage Anti-Moisture Metal Film	1/4W	100K - 15M	1, 5	± 200	VR25 HVR25	RCR25	N/A	N/A	N/A
RSF RSMF		Metal Oxide	1/2W - 5W	0.1 - 1M	1, 2, 5	± 200	SXA CPF	MO MOS (RSS)	RSF	MO MOM	NMO
ASR SPR		Anti-Surge	1/4W - 2W	2.0 - 12M	5	+0/-500 +0/-1800	N/A	RCR	N/A	N/A	N/A
RSPF RSPL		Flameproof Power	1/4W - 3W	0.1 - 1M	1, 2, 5	-200/+350	FP	SPR	RSF	MO-S	N/A
MG MGM		High Voltage Metal Glaze	1/4W - 3W	100K - 1G	1, 5, 10	± 100	VR	N/A	HVR	GC MH	N/A
CF CFM		Carbon Film	1/8W - 2W	1 - 22M	2, 5	± 400	N/A	CF	CFR	CF	NCF
HDM		Moisture Resistant Carbon Film	1/4W, 1/2W	1 - 2.2M	1, 2, 5	N/A	N/A	N/A	N/A	N/A	N/A
RC		Carbon Composition	1/4W - 1W	1 - 22M	5, 10	N/A	N/A	RC	N/A	IBT	N/A
JW		Jumper Wire	24 - 20 gauge	3A to 4A max current	N/A	N/A	N/A	JL	JPW	N/A	N/A
CD		Zero Ohm	1/8W - 1/2W	0.01 or less	N/A	N/A	FRJ	Z J	ZOR	Zero Ohm	NZO
Stackpole Series		Description	Package Size	Resistance Range (Ω)	Tolerance (%)	TCR (ppm/°C)	Ohmite	Caddock	Vishay	KOA	RCD
TR		Power Resistor	20W - 100W	0.05 - 10K	0.5 to 10	± 50 to ± 300	TAH, TBH, TCH, TDH, TEH, TFH	MP820, 821, 825, 850, 915, 916, 925, 930	N/A	N/A	MP
HVR		High Voltage Radial Ledged Plate Resistor	21 - 56	100K - 50G	0.1 to 20	± 25 to ± 200	N/A	THV USP	N/A	RK92	N/A

Wirewound and Power Resistors

Stackpole Series		Description	Package Size	Resistance Range (Ω)	Tolerance (%)	TCR (ppm/°C)	Vishay	IRC	Ohmite	RCD	Riedon
WW MWW WRF		Precision Wirewound	0.4W - 11.5W	0.1 - 150K	0.1 to 5	±20 to ±90, -80 ~ +900	RS/NS	AS SP20 SPH	40 80	100 RW	UT
SP3A		UL1412 Recognized Fusable Wirewound	4W	10 - 100	5	±20	N/A	ULW3	N/A	N/A	N/A
SM		Surface Mount Wirewound	1W - 4W	0.01 - 5K	0.1 to 5	±20 to ±100	WSC WSR	WSM	RW	MWM	S SL
HPC		High Power Surface Mount	12W	0.025 - 250K	1, 5	±150	N/A	N/A	N/A	N/A	N/A
CB WCB MCB		Ceramic Housed	2W - 30W	0.1 - 500K	0.5 to 10	±20 to ±800	CP CPW CPL	PW PPW LPW	TUW TUM	PW ULV LOR	UW
LCB LCBF TCB		Ceramic Housed Current Sensing	2W - 15W	0.005 - 0.33	1, 5, 10	±200 ±50 to ±400	CPL CPSL	N/A	LPW 4LPW	TUW TUM	LOR
NSZ PCB		Specialty Lead Ceramic Housed	3W - 15W	0.1 - 50K	5	N/A	CPR	N/A	TVM	PWLL	N/A
VM VVM MVM		Ceramic Housed Vertical Mount	2W - 10W	0.01 - 50K	0.5 to 10	±20 to ±800	CPCC CPCF CPCL CPCP	PWR PWRG PWRL	TWM TWW	PV	UV
LVM		Vertical Mount Ceramic Housed Current Sensing	2W - 10W	0.01 - 0.15	1, 5, 10	±50 to ±400	CPCL	N/A	PWRL	TWW	PV
BVM		Bracket Vertical Mount Wirewound	5W - 25W	0.1 - 50K	1, 5	±300	N/A	N/A	N/A	PWV	N/A
RWT		Thermal Fusing Vertical Mount	2W - 7W	1 - 470	5	±200	N/A	N/A	N/A	N/A	N/A
SWT EWT		Non-Flammable Edgewound Tubular	12W - 1300W	0.1 - 1M	5, 10	±100 to ±400	HLW	N/A	270	T	TSC TVC
KAL		Aluminum Housed Surface Mount	5W - 250W	0.05 - 150K	0.1 to 5	±20 to ±100	RH	AL	89 HS	600	UAL
MHL		Metal Clad Low Profile Power Wirewound	60W - 1000W	0.1 - 100K	1, 5	±260	N/A	N/A	N/A	N/A	N/A

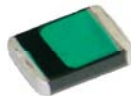
Current Sense and Thin Film Resistors

Stackpole Series		Description	Package Size	Resistance Range (Ω)	Tolerance (%)	TCR (ppm/ $^{\circ}$ C)	Vishay	KOA	IRC	Ohmite	RCD
CSR CSRN		Thick Film Current Sensing	0402 - 1225	0.001 - 10	1, 2, 5	± 100 to ± 300	CRCW LR	SR73 UR73	LR PLR LRF3W	LVC	ML
CSRF		Foil on Ceramic Carrier Current Sensing	0805 - 2512	0.003 - 0.1	1, 5	± 50 , ± 100	N/A	N/A	N/A	MCS	N/A
CSM		Molded Current Sensing	0603, 2512	0.002 to 0.1	1, 5	± 75 , ± 100	N/A	N/A	N/A	N/A	N/A
CSNL		Metal Foil Current Sensing	1206 - 2512	0.0005 - 0.1	1, 5	± 50	WSL	TLR	ULR	N/A	N/A
CSS CSSH		Ultra Precision Current Sensing	1206 - 4527	0.00025 - 0.12	0.5 to 5	± 15 to ± 50	WSL	TLR	ULR	N/A	N/A
BR		Bare Element Current Sensing	1W - 5W	0.005 - 0.1	1, 2, 5	± 100	SR	N/A	OAR	60	OA
HLD		High Current Shunt	1W - 5W	0.003 - 0.1	2, 5, 10	± 100	SPR	N/A	N/A	N/A	CSL
MPR		Flameproof Metal Plate	3W - 7W	0.01 - 0.47	5, 10	± 350	N/A	BPR	N/A	N/A	N/A
MR		Low Resistance Value	1W - 10W	0.005 - 0.5	1, 5	± 40 to ± 400	LVR	N/A	LOB	10	N/A
Stackpole Series		Description	Package Size	Resistance Range (Ω)	Tolerance (%)	TCR (ppm/ $^{\circ}$ C)	Vishay	KOA	Yageo	IRC	Panasonic
RNCF		Precision Thin Film	0201 - 2512	1 - 3M	0.01 to 1	± 5 to ± 100	TNPW PHR	RN73	TF 9T RT	PCF	ERA
RNCS RNCH		Anti-Corrosive Tantalum Nitride	0402 - 2512	10 - 1M	0.1 to 0.5	± 15 to ± 50	PTN	N/A	N/A	PFC	N/A
RNCP		High Power Anti-Sulfur Thin Film	0402 - 1206	1 - 100K	1, 5	± 100	N/A	N/A	N/A	N/A	N/A
MLF MLFM		Precision Melf	0204 - 0207	1 - 10M	0.1 to 5	± 10 to ± 100	MMA MMB	RN41	MMF	CHP	N/A

Inductors											
Stackpole Series		Description	Package Size	Inductance Range (uH)	Rated Current (A)	DCR Range (Ω)	Pulse	Vishay	Coil Craft	NIC	Coiltronics
PS		Shielded SMD Power Inductor	1608 - 5022	1 - 10000	0.02 - 5	0.021 - 32.8	P1174	IDCS	DS	NIPS_R	N/A
PCS		Shielded SMD Power Inductor	62B - 127	1 - 1000	0.14 - 15.9	0.007 - 9.44	PF0601 PF1166/7/8/9 P1170 - P1173	N/A	MSS	NPIS_H	DR
PCDR		Shielded SMD Power Inductor	0628 - 1275	1.2 - 1500	0.13 - 13	0.0069 - 4.78	N/A	N/A	MSS	MPIS_T	N/A
PCDS		Shielded SMD Power Inductor	63B - 125B	4.7 - 820	0.33 - 3.15	0.03 - 2	N/A	N/A	N/A	N/A	N/A
SCDS		Shielded Low Profile SMD Power Inductor	3D18 - 6D38	1 - 470	0.13 - 6.15	0.012 - 6.56	N/A	N/A	N/A	NPIS_D	N/A
PDH		Unshielded SMD Power Inductor	1608 - 5022	0.47 - 1000	0.4 - 30	0.003 - 1.6	P1252 PF0638 PA0390	N/A	DO	NPI_I	UP*B
PD		Unshielded SMD Power Inductor	1608 - 5022	0.18 - 1000	0.1 - 20	0.007 - 13.8	P0770 PO751/2 PF0382 PF0762	IDC	DO	NPI_W	UP0.4C
PCD		Unshielded SMD Power Inductor	0301 - 1006	1 - 1000	0.09 - 9.5	0.008 - 26	PF0580 PF0581 PG0015	IDCP	N/A	NPI_C	LD
Stackpole Series		Description	Package Size	Inductance Range (nH)*	Rated Current (mA)	DCR Range (Ω)	SRF Range (GHz)	Murata	Vishay	TDK	Toko
AL		Thin Film Chip Inductor	0201, 0402	0.1 - 33	75 - 800	0.1 - 4.5	2 - 14	LQP	IMC	MLF	N/A
WL		Wirewound Ceramic Chip Inductor	0402 - 1206	1 - 15000	80 - 2400	0.02 - 11.5	0.015 - 12.7	LQW	IFC IMC	ACL MLF	LLQ
NL		SMD Ferrite Wirewound Inductor	0805 - 2220	0.47uH - 1mH	25 - 2600	0.03 - 150	0.0005 - 2	LQH	IMC ISC	NL NLC	LLM

* Unless specified otherwise.

Varistors

Stackpole Series		Description	Package Size	Voltage Range (Vrms)	Max Energy (J)	Peak Current (Amps)	Epcos	Littelfuse	AVX	Maida
AV AVY		Automotive Grade 12 and 24 Volt Power Supply AVY - High Temperature	1206 - 3225	14 - 40	21	2K	CN CT AUTO	AUML	N/A	N/A
ZV ZVY		Low Voltage SMD Varistors ZVY - High Temperature	0603 - 2220	2 - 130	12.2	1.2K	CN CT	ML	transguard	AV PV SV
ZVE ZVX		Varicons for Protection against ESD	0603 - 1210	2 - 30	0.1	40	N/A	MLE MLA	staticguard	TV
DV		Low Profile Medium Voltage Varicons	3225, 4032	11 - 300	30	1.2K	N/A	CH	VC	8S
PV		Low and Medium Voltage Plastic Encapsulated	3225, 4032	11 - 300	30	1.2K	CU	N/A	N/A	N/A
Stackpole Series		Description	Package Size (mm)	Voltage Range (Vrms)	Max Energy (J)	Peak Current (Amps)	Epcos	Littelfuse	Panasonic	Maida
AVL AVYL		Automotive Grade AVY - High Temperature	6 - 40	14 - 40	76	2K	S - AUTO	ZA	N/A	N/A
MV		Low Voltage Dual Function Varistors RFI Suppressors	6 x 9	2 - 95	2.5	150	N/A	N/A	N/A	N/A
OV		Automotive Dual Function Varistors RFI Suppressors	7.5 x 9 8 x 12	14 - 40	12	1.2K	SHCV	N/A	N/A	N/A
ZVL ZVYL		Radial Leaded Low Voltage Varicons ZVY - High Temperature	5 - 20	2 - 40	37.8	2K	N/A	N/A	N/A	N/A
CV		Low and Medium Voltage Varistors	5 - 20	50 - 680	620	6.5K	S	ZA/LA	ERZV	D_ZOV
CVH		Medium Voltage Varistors	7 - 23	60 - 680	745	15K	S-E2 S-E3	ZA/LA UltraMOV	ERZV	D_ZOV
SV		Special Medium Voltage Varistors	5 - 23	60 - 680	980	15K	Q	N/A	N/A	R_ZOV
ZOV		Square Shaped High Energy Varistors	23 - 60	60 - 680	4140	80K	LS	DHB HB HF HG	ERZC	D_ZOV