



**Stackpole Europe Ltd**

*Resistive Product Solutions*



## **2012 Short Form Product selector and Cross Reference**



### **Thick Film Resistors**

### **Thin Film Resistors**



### **Current Sensing Resistors**



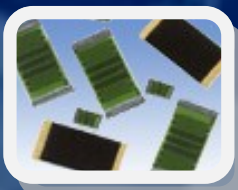
### **Chip Resistor Arrays**

### **Metal Film and Metal Oxide Resistors**



### **Carbon Film and Carbon Comp Resistors**

### **Wirewound Resistors**



### **High Frequency Inductors**

### **SMD Power Inductors**



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## Surface Mount Chip Resistors and Arrays

Stackpole Series		Description	Package Size	Resistance Range ( $\Omega$ )	Tolerance (%)	TCR (ppm/ $^{\circ}$ C)	Vishay	KOA	Yageo	IRC	Panasonic
RMCF		General Purpose Thick Film	0201 - 2512	1 - 10M	1, 5	$\pm 100$ to $\pm 600$	CRCW	RK73B RM73 RK 73Z	9C RC	WCR	ERJ
RMCS		Sulfur Resistant Thick Film	0201 - 2512	1 - 10M	1, 5	$\pm 100$ to $\pm 200$	RCA	N/A	N/A	N/A	ERJ-S
RMCG		Gold Barrier Sulfur Impervious	0402 - 2512	1 - 10M	1, 2, 5	$\pm 100$ to $\pm 600$	N/A	N/A	AR	N/A	N/A
HMC		High Value Thick Film	0402 - 2512	10.2M - 100M	1, 5	$\pm 200$ to $\pm 1500$	CRCW_HR	N/A	N/A	HR	N/A
RMCP		General Purpose High Power Thick Film	0402 - 2512	1 - 10M	1, 5	$\pm 100$ , $\pm 200$	N/A	N/A	N/A	N/A	N/A
RHC		High Power Thick Film	2512 (2W)	0.1 - 1M	1, 5	$\pm 100$	N/A	N/A	N/A	N/A	N/A
FCR		Trimmable Thick Film	0402 - 2512	10 - 1M	$\pm 5\%$ to $\pm 20\%$	$\pm 200$	CRCW-TR	RK73N	TR	N/A	N/A
RGC		Semi-Precision Thick Film	0402 - 2512	10 - 10M	0.5, 1	$\pm 50$ , $\pm 100$	CRCW_P	RK73G	RJ	N/A	ERJ_D
RPC		Pulse Withstanding Thick Film	0603 - 2512	1 - 20M	0.5 to 20	$\pm 100$ , $\pm 200$	CRCW-IF	SG73	SRC	PWC	ERJP ERJT
RVC		Medium Voltage Thick Film	0402 - 2512	10 - 100M	1, 5	$\pm 100$ to $\pm 400$	N/A	HV73	RV	N/A	N/A
HVC		High Voltage Thick Film	0603 - 3512	10K - 50G	0.5 to 20	$\pm 25$ to $\pm 300$	CRHV	HV73	N/A	HVC	N/A
RAVF		Convex Resistor Arrays	0201x2, 0402x2 0402x4, 0603x2 0603x4, 0603x8	1 - 10M	1, 2, 5	$\pm 200$ to $\pm 500$	CRA/S	CN_K/N CNZ	YC	WCA	EXB
RACF		Concave Resistor Array	0402x2, 0402x4 0603x4, 0603x8 1206x4	1 - 10M	1, 2, 5	$\pm 200$ to $\pm 650$	CRA/P	CN CNB CND_Y CNZ	TC	N/A	EXB
RAF		Flat Termination Chip Resistor Array	0201x2, 0201x4	10 - 1M	5	$\pm 200$	N/A	CNIH	YC102	N/A	EXB14 EXB18
RAVN		Thin Film Precision Array	0603x4	100 - 33K	0.1, 0.25, 0.5	$\pm 10$ , $\pm 15$	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 Fusible 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 WVM 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 ( $\Omega$ )	Tolerance (%)	TCR (ppm/ $^{\circ}$ C)	Vishay	KOA	IRC	Ohmite	RCD
CSR CSRN		Thick Film Current Sensing	0402 - 1225	0.001 - 10	1, 2, 5	$\pm 100$ to $\pm 300$	CRCW LR	SR73 UR73	LR PLR LRF3W	LVC	ML
CSRF		Foil on Ceramic Carrier Current Sensing	0805 - 2512	0.003 - 0.1	1, 5	$\pm 50$ , $\pm 100$	N/A	N/A	N/A	MCS	N/A
CSM		Molded Current Sensing	0603, 2512	0.002 to 0.1	1, 5	$\pm 75$ , $\pm 100$	N/A	N/A	N/A	N/A	N/A
CSNL		Metal Foil Current Sensing	1206 - 2512	0.0005 - 0.1	1, 5	$\pm 50$	WSL	TLR	ULR	N/A	N/A
CSS CSSH		Ultra Precision Current Sensing	1206 - 4527	0.00025 - 0.12	0.5 to 5	$\pm 15$ to $\pm 50$	WSL	TLR	ULR	N/A	N/A
BR		Bare Element Current Sensing	1W - 5W	0.005 - 0.1	1, 2, 5	$\pm 100$	SR	N/A	OAR	60	OA
HLD		High Current Shunt	1W - 5W	0.003 - 0.1	2, 5, 10	$\pm 100$	SPR	N/A	N/A	N/A	CSL
MPR		Flameproof Metal Plate	3W - 7W	0.01 - 0.47	5, 10	$\pm 350$	N/A	BPR	N/A	N/A	N/A
MR		Low Resistance Value	1W - 10W	0.005 - 0.5	1, 5	$\pm 40$ to $\pm 400$	LVR	N/A	LOB	10	N/A
Stackpole Series		Description	Package Size	Resistance Range ( $\Omega$ )	Tolerance (%)	TCR (ppm/ $^{\circ}$ C)	Vishay	KOA	Yageo	IRC	Panasonic
RNCF		Precision Thin Film	0201 - 2512	1 - 3M	0.01 to 1	$\pm 5$ to $\pm 100$	TNPW PHR	RN73	TF 9T RT	PCF	ERA
RNCS RNCH		Anti-Corrosive Tantalum Nitride	0402 - 2512	10 - 1M	0.1 to 0.5	$\pm 15$ to $\pm 50$	PTN	N/A	N/A	PFC	N/A
RNCP		High Power Anti-Sulfur Thin Film	0402 - 1206	1 - 100K	1, 5	$\pm 100$	N/A	N/A	N/A	N/A	N/A
MLF MLFM		Precision Melf	0204 - 0207	1 - 10M	0.1 to 5	$\pm 10$ to $\pm 100$	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.