
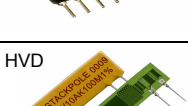
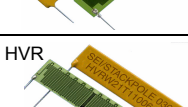





SEI Short Form Catalog

Through-Hole Resistors										
Series	Description	Package Size	Resistance Range	Tolerance (%)	TCR (ppm/°C)	Vishay	KOA	Yageo	IRC	NIC
RN RNM 	Metal Film	1/8W – 1W	1Ω – 10MΩ	0.1 – 5	±10 to ±100	CMF CCF	MF RNS	MFR	GP RC	NMR
FRN 	Fusing Metal Film	1/4W – 2W	0.22Ω – 10KΩ	5	±350	CMF XX-39	N/A	FRM	WFF	N/A
RS RSM 	Metal Oxide	1/2W – 5W	0.1Ω – 1MΩ	1 – 5	±200	SXA CPF	MO MOS (RSS)	RSF	MO MOM	NMO
ASR SPR 	Anti-Surge	1/4W – 1W	100Ω – 33MΩ	5, 10	+0/-500 +0/-1800	N/A	RCR	N/A	N/A	N/A
RSPF RSPL 	Flameproof Power	1/2W – 3W	0.1Ω – 1MΩ	1, 5	-200/+350	FP	SPR	RSF	MO-S	N/A
MG MGM 	Metal Glaze	1/4W – 3W	100KΩ – 200MΩ	1, 5	±200	VR	N/A	HVR	GC MH	N/A
CF CFM 	Carbon Film	1/8W – 2W	1Ω – 22MΩ	2, 5	±400	N/A	CF	CFR	CF	NCF
HDM 	Moisture Resistant Carbon Film	1/4W – 1/2W	1Ω – 2.2MΩ	1 – 5	N/A	N/A	N/A	N/A	N/A	N/A
RC 	Carbon Composition	1/4W – 1W	1Ω – 20MΩ	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	0.01Ω or less	N/A	N/A	FRJ	Z J	ZOR	Zero ohm	NZO
LC 	Low Profile Thick Film Network	4 – 13 pin configuration	22Ω – 1MΩ	2	±100	CSC	RKL	N/A	CL	N/A
HVD 	High Voltage Ledged Divider	0.5W – 6W	1000:1 100:1	0.1 – 5	±25 to ±200	N/A	N/A	N/A	N/A	N/A
HVR 	High Voltage Ledged Resistor	0.5W – 6W	30MΩ – 100GΩ	0.1 – 20	±25 to ±100	N/A	N/A	N/A	N/A	N/A

SEI Short Form Catalog

Surface Mount Chip Resistors

Series	Description	Package Size	Resistance Range	Tolerance (%)	TCR (ppm/°C)	Vishay	KOA	Yageo	IRC	Panasonic
RMC 	General Purpose Thick Film	0201 – 2512	0.1Ω – 22MΩ	1, 5	±100 to ±350	CRCW	RK73B RM73 RK 73Z	9C RC	WCR	ERJ
RMCS 	Sulfur Resistant Thick Film	0201 – 2512	10Ω – 22MΩ	1, 5	±100 to ±200	RCA	N/A	N/A	N/A	ERJ-S
RMCG 	Gold Barrier Sulfur Imprevious	0603 – 1210	10Ω – 1MΩ	1 – 5	±200	N/A	N/A	AR	N/A	N/A
HMC 	High Value Thick Film	0603 – 1206	43MΩ – 10GΩ	5 – 20	±500 to ±1500	CRCW_HR	N/A	N/A	HR	N/A
RHC 	High Power Thick Film	2512 (2W)	0.1Ω – 1MΩ	1, 5	±100	N/A	N/A	N/A	N/A	N/A
FCR 	Trimmable Thick Film	0603 – 2010	10Ω – 1MΩ	5 – 15	±200	CRCW-TR	RK73N	TR	N/A	N/A
RGC 	Semi-Precision Thick Film	0402 – 1206	3.3Ω – 4.6MΩ	0.5, 1	±50, ±100	CRCW_P	RK73G	RJ	N/A	ERJ_D
RNC 	Precision Thin Film	0201 – 2512	1Ω – 2MΩ	0.01 – 1	±5 to ±200	TNPW PHR	RN73	TF 9T RT	PCF	ERA
RNCS 	Anti Corrosive Tantalum Nitride Replacement	0402 – 2512	25Ω – 1MΩ	0.1 – 0.5	±25 to ±50	PTN	N/A	N/A	PFC	N/A
RNCW 	Wire Bondable Thin Film	0201 – 0603	10Ω – 332KΩ	0.1 – 10	±25 to ±100	N/A	N/A	N/A	N/A	N/A
RAV 	Convex Resistor Arrays	1/16W – 1/4W	10Ω – 1MΩ	1 – 5	±200	CRA/S	CN_K/N CNZ	YC	WCA	EXB
RAC 	Concave Resistor Arrays	1/16W – 1/4W	10Ω – 1MΩ	1 – 5	±200	CRA/P	CN CNB CND_Y CNZ	TC	N/A	EXB
MAC 	Dual Value Resistor Arrays	1/32W – 1/16W	10Ω – 1MΩ	5	±200 to ±350	N/A	N/A	N/A	N/A	N/A
MLF 	Precision Melf	0204 – 0207	10Ω – 5.1MΩ	0.1 – 5	±25 to ±100	MMA MMB	RN41	MMF	CHP	N/A

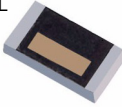

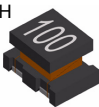



SEI Short Form Catalog

Wirewound Resistors										
Series	Description	Package Size	Resistance Range	Tolerance (%)	TCR (ppm/°C)	Vishay	IRC	Ohmite	RCD	Riedon
WW MWW	 Conformal Coated Precision	0.4W – 13W	0.1Ω – 150KΩ	0.1 – 5	±20 to ±90	RS/NS	AS SP20 SPH	40 80	100 RW	UT
WRF	 Conformal Coated	1W – 3W	0.1Ω – 1.2KΩ	5	±200	CW	SPP	N/A	100	UT
MR TMR	 Low Value Molded, MR 2 leads TMR 4 leads	1W – 10W	0.005Ω – 0.5Ω	1 – 5	±40 to ±400	LVR	LOB	10	N/A	MT
MPR	 Flameproof Rectangular Type Metal Plate	3W – 5W	0.005Ω – 0.8Ω	1 – 10	±100	N/A	N/A	N/A	N/A	N/A
NSP	 Commercial Grade Ceramic Housed	2W – 25W	0.1Ω – 2KΩ	5	±200	N/A	CAW	N/A	N/A	UW
CB WCB MCB LCB	 Ceramic Housed	2W – 30W	0.005Ω – 20KΩ	0.5 – 10	±20 to ±800	CP CPW CPL	PW PPW LPW	TUW TUM	PW ULV LOR	UW
TCB	 Ceramic Housed - 4 leads	3W – 15W	0.005Ω – 0.2Ω	1, 5	±40	CPSL	4LPW	N/A	LVF	N/A
NSZ	 Specialty Lead Ceramic Housed	3W – 20W	0.1Ω – 50KΩ	5	N/A	CPR	N/A	TVM	PWLL	N/A
VM WVM MVM LVM	 Ceramic Housed Vertical Mount	2W – 10W	0.01Ω – 100KΩ	0.5 – 10	±20 to ±800	CPCC CPCF CPCL CPCP	PWR PWRG PWRL	TWM TWW	PV	UV
RWT	 Thermal Fusing Vertical Mount	2W	1.0Ω – 100Ω	5	±200	N/A	N/A	N/A	N/A	N/A
VER	 Vitreous Enamel	3W – 14W	0.1Ω – 100KΩ	1 – 5	±200	G200	W20	N/A	N/A	VT
HLD	 4 Terminal High Current Shunt/ Sensing Resistor	to 5W	0.001Ω – 0.1Ω	1, 5	to ±20	N/A	N/A	N/A	CSL	N/A
KAL	 Aluminum Housed	10W – 250W	0.05Ω – 150KΩ	0.1 – 5	±20 to ±100	RH	AL	89 HS	600	UAL

SEI Short Form Catalog




Power Resistors										
Series	Description	Package Size	Resistance Range	Tolerance (%)	TCR (ppm/°C)	Vishay	KOA	IRC	Ohmite	RCD
SM 	Wirewound Surface Mount	1W – 3W	0.01Ω – 3.01KΩ	0.1 – 5	±20 to ±100	WSC WSR	N/A	WSM	RW	MWM
HPC 	High Power Chip	5W, 10W, 12W	0.025Ω – 250KΩ	1, 5	±150	N/A	N/A	N/A	N/A	N/A
RHC 	High Power Thick Film	2512	0.1Ω – 1MΩ	1, 5	±100	N/A	N/A	N/A	N/A	N/A
RPC 	Medium Voltage Pulse Chip	0805 – 2512	0.27Ω – 22MΩ	5, 10	±200	CRCW-IF	SG73	PWC	N/A	N/A
CSNL 	Metal Strip Current Sensing	1206 – 2512	0.001Ω – 0.007Ω	1, 5	±50	WSL	TLR	ULR	N/A	N/A
CSRF 	Foil on Ceramic Current Sensing	2512	0.001Ω – 0.5Ω	1, 5	±50	WSL	TLR	LRF	N/A	N/A
CSR CSRN 	Current Sensing	0402 – 2512 & 1225	0.005Ω – 1Ω	1, 5	±100 to ±300	CRCW/LR	SR73 UR73	LR PLR LRF3W	LVC	ML
RVC 	Medium Voltage Thick Film	0603 – 2512	47Ω – 51MΩ	1, 5	±100 to ±500	N/A	N/A	N/A	MMC	N/A
HVC 	High Voltage	0603 – 2512	1KΩ – 10GΩ	0.5 – 10	±25 to ±200	CRHV	HV73	HVC	HVF	SRH
SWT EWT CWT 	Edgewound Tubular Wirewound	12W – 1300W	0.1Ω – 1.3MΩ	5, 10	N/A	HL RJU	N/A	N/A	L 270	N/A
Series	Description	Package Size	Resistance Range	Tolerance (%)	TCR (ppm/°C)	Vishay	Caddock	IRC	Ohmite	RCD
STR 	D2PAK	35W	0.1Ω – 10KΩ	0.5 – 10	±50 to ±200	D2TO	MP725	SMHP	TDH35	MPD220
TR 	TO-220 Style Power	20W – 100W	0.05Ω – 10KΩ	0.5 – 10	±50 to ±200	RTO20F	MP800 MP900	MHP	TK20 TCH35	MP

SEI Short Form Catalog

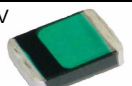



Inductors										
Series	Description	Pkg Size	Inductance* Range (nH)	IDC Range (mA)	DCR Range (Ω)	SRF Range (GHz)	Murata	Vishay	TDK	TOKO
AL 	Thin Film Chip Inductor	0201 – 0603	0.2 – 100	75 – 800	0.1 – 7.5	1 – 14	LQP	IMC	MLF	N/A
CL 	Multilayer Chip Inductor	0402 – 0805	1 – 330	100 – 1,000	0.1 – 3.0	0.4 – 10	LQG	ILC	MLK MLG	LL
WL 	Wirewound Ceramic Chip Inductor	0402 – 1206	1 – 15,000	100 – 2,400	0.02 – 11.5	0.015 – 12.7	LQW	IFC IMC	ACL MLF	LLQ
CB 	Ferrite Bead	0402 – 1812	Impedance: 6.0 Ω – 2,700 Ω	50 – 6,000	0.01 – 1.5	N/A	BLM	ILB ILBB ILHB	MMZ MPZ	N/A
NL 	SMD Ferrite Wirewound Inductor	0805 – 2220	0.1 μ H – 10mH	25 – 1,800	0.03 – 150	0.0005 – 2.5	LQH	IMC ISC	NL NLC	LLM
VLH 	Miniature Wirewound Power Inductor	321618 – 575047	0.1 μ H – 10mH	30 – 6,000	0.0098 – 140	N/A	LQH	N/A	N/A	N/A
Series	Description	Pkg Size	Inductance Range (μ H)	IDC Range (A)	DCR Range (Ω)	Pulse	Vishay	Coil Craft	NIC	Coiltronics
PDH 	Unshielded SMD Power Inductors	1608 – 5022	0.47 – 100	0.47 – 19.2	0.002 – 1.11	P1252 PF0638 PA0390	N/A	DO	NPI_P	UP*B
PD 	Unshielded SMD Power Inductors	1608 – 5022	0.18 – 1,000	0.05 – 10	0.003 – 13.8	P0770 P0751/2 PF0382 P0762	IDC	DO	NPI_W	UP0.4C
PCD 	Unshielded SMD Power Inductors	0302 – 1005	1 – 820	0.09 – 4.5	0.03 – 9.5	PF0580 PF0581 PG0015	IDCP	N/A	NPI_C	LD
MPI 	Unshielded SMD Power Inductors	0610 – 0915	1.2 – 1,000	0.13 – 2.1	0.06 – 15	N/A	N/A	N/A	N/A	N/A
MPE 	Unshielded SMD Power Inductor	0312	1 – 68	0.17 – 1.4	0.08 – 4.2	N/A	N/A	N/A	N/A	N/A
MPC 	Unshielded SMD Power Inductor	0615, 0620	1 – 4,700	0.037 – 2.91	0.026 – 137.04	N/A	N/A	N/A	NPI_L	N/A

*Unless specified otherwise

SEI Short Form Catalog

Inductors										
Series	Description	Pkg Size	Inductance Range (μ H)	IDC Range (A)	DCR Range (Ω)	Pulse	Vishay	Coil Craft	NIC	Coiltronics
PS 	Shielded SMD Power Inductor	1608 – 5022	1.0 – 10,000	0.02 – 5.00	0.021 – 32.800	P1174	IDCS	DS	NPIS_R	N/A
PCS 	Shielded SMD Power Inductor	6.6 x 6.6mm, 7.3 x 7.3mm, 12.0 x 12.0mm	1.2 – 1,000	0.14 – 9.80	0.007 – 9.44	PF0601 P1166/7/8/9 P1170 – P1173	N/A	N/A	NPIS_H	DR
PCDR 	Shielded SMD Power Inductor	6.0 x 6.0mm, 7.0 x 7.0mm, 10.1 x 10.1mm, 12.5 x 12.5mm	1.2 – 1,500	0.13 – 8.20	0.0069 – 4.78	N/A	N/A	MSS	NPIS_T	N/A
PCDS 	Shielded SMD Power Inductor	6.2 x 5.6mm, 7.8 x 7.0mm, 10.0 x 9.0mm, 12.6 x 11.6mm	10 – 820	0.33 – 2.65	0.05 – 2.0	N/A	N/A	N/A	N/A	N/A
PSDB 	Shielded SMD Power Inductor	6.2 x 6.3mm, 10.3 x 10.4mm	1.3 – 1,000	0.35 – 10	0.0081 – 1.946	PF0560	N/A	N/A	NPIS_F	N/A
SCDS 	Shielded SMD Power Inductor	2D09 – 6D38	1.0 – 220	0.12 – 3.50	0.018 – 4.77	N/A	N/A	N/A	NPIS_D	N/A
SFM 	Shielded SMD Power Inductor	5.2 x 5.2mm, 6.3 x 6.3mm, 10.4 x 10.4mm, 12.8 x 12.8mm	1 – 680	0.24 – 7.7	0.01 – 1.25	N/A	N/A	N/A	N/A	N/A
PDRH 	Shielded SMD Power Inductor	3.85 x 3.85mm, 5.3 x 5.3mm, 5.9 x 5.9mm	0.47 – 27,000	0.026 – 4.82	0.009 – 201.2	N/A	N/A	N/A	N/A	N/A
PTS 	Shielded SMD Power Inductor	2210 – 2225	1 – 270	0.02 – 2.32	0.042 – 24.67	N/A	N/A	N/A	N/A	SD3110 – SD3118
PCF 	Shielded SMD Power Inductor	3.8 x 3.8mm, 5.0 x 5.0mm, 6.9 x 6.9mm, 7.3 x 7.3mm, 10 x 10mm	0.36 – 10,000	0.026 – 12.6	0.005 – 201.16	PG0087	N/A	N/A	N/A	SD12 SD20 SD25
DRGR DRGH 	DIP Power Choke H-Unshielded R-Shielded	6mm, 7.8mm, 10mm, 10.5mm	10 – 47,000	0.04 – 5.3	0.022 – 96.4	N/A	N/A	DC DR	N/A	N/A

SEI Short Form Catalog

Varistors									
Series	Description	Package Size	Voltage Range (V _{rms})	Max Energy (J)	Peak Current (Amps)	EPCOS	Littelfuse	AVX	Maida
AV AVY 	Automotive Grade 12 and 24 Volt Power Supply AVY – High Temperature	0805 – 3225	14 – 35	19	2K	CN CT AUTO	AUML	N/A	N/A
ZV ZVY 	Low Voltage SMD Varicons 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 – 1206	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
Series	Description	Package Size (mm)	Voltage Range (V _{rms})	Max Energy (J)	Peak Current (Amps)	EPCOS	Littelfuse	Panasonic	Maida
AV AVY 	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	13.3	1.2K	SHCV	N/A	N/A	N/A
ZV ZVY 	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	5 – 20	40 – 680	620	6.5K	S	ZA/LA	ERZV	D_ZOV
CV+ 	Medium Voltage	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
ZOVR 	Round Shaped High Energy Varistors	25 – 40	61 – 680	2590	40K	LS	HA CA	N/A	S_ZOV