

THT ALUMINUM ELECTROLYTIC CAPACITOR

Class	Series	Feature	Temperature Range	Rated Voltage Range	Capacitance Range	Load Life
Standard Type	CD11ET	5mmL105°C Standard Product	-40°C~105°C	4~50V	3.3μF~330μF	1000H
	CD11CT	7mmL105°C Standard Product	-40°C~105°C	6.3~50V	3.3μF~330μF	1000H
	CD11T	105°C Standard Product	-40°C~105°C	6.3~450V	0.47μF~22000μF	2000H
	CDTL	105°C Standard Long Life Product	-40 (-25) ~105°C	6.3~450V	1μF~10000μF	3000~5000H
Low Leakage Current	CD11DH	105°C Low Leakage Current	-40°C~105°C	6.3~100V	0.10μF~1000μF	2000H
Non-polarized Type	CD71T	105°C Bipolar Product	-40°C~105°C	6.3~100V	0.47μF~6800μF	1000H
Low Impedance Type	CD11EZ	5mmL105°C Low Impedance Product	-40°C~105°C	6.3~35V	1μF~100μF	1000H
	CD11CZ	7mmL105°C Low Impedance Product	-40°C~105°C	6.3~35V	3.3μF~330μF	1000H
	CD288T	105°C Low Impedance Product	-40°C~105°C	6.3~100V	2.2~6800μF	2000~4000H
	CDGT	105°C Low Impedance Longest Life Product	-40°C~105°C	6.3~100V	15μF~3900μF	4000~10000H
	CDSL	105°C Lowest Impedance Longest Life Product	-40°C~105°C	6.3~100V	56μF~8200μF	6000~10000H
	CDSH	105°C Highest Ripple Current Lower Impedance Product	-40°C~105°C	6.3~50V	100~8200μF	3000~5000H
High Ripple Current Type	CDRR	High Working Voltage High Ripple Current Long Life Product	-40 (-25) ~105°C	160~450V	1~220μF	3000H
	CDRT	105°C High Working Voltage High Ripple Current Longer Life Product	-40 (-25) ~105°C	160~450V	1~220μF	5000H
	CDRD	105°C High Working Voltage High Ripple Current Longest Life Product	-40 (-25) ~105°C	160~450V	1~220μF	8000H~10000H
	CDRH	105°C High Pressure, High Ripple, Ultra Long Life Product	-40 (-25) ~105°C	160~450V	1~220μF	10000H~12000H
High Temperature Type	CD13D	High Temperature, High Ripple Product	-40~125°C	10~100V	1~4700μF	1000H~4000H
	CD13H	High Temperature, High Ripple Product	-40 (-25) ~130°C	10~450V	1~4700μF	1000H~4000H
Wide Temperature Type	CDJA	Wide Temperature Standard	-55°C~105°C	6.3~100V	2.2~22000μF	2000H
	CDRF	Wide Temperature Low Impedance Product	-55°C~105°C	6.3~100V	1.0~4700μF	2000H~4000H
	CDRW	Wide Temperature Low Impedance Long Life Product	-55°C~105°C	6.3~100V	4.7~15000μF	4000H~7000H

SMD ALUMINUM ELECTROLYTIC CAPACITOR

Class	Series	Feature	Temperature Range	Rated Voltage Range	Capacitance Range	Load Life
Standard Type	CDUT	105°C Wide temperature Standard	-55°C~105°C	4~100V	0.47μF~1500μF	2000H
Low Impedance Type	CDUE	Wide Temperature Low Impedance &Low ESR	-55°C~105°C	6.3~100V	0.1μF~1500μF	2000H
	CDUZ	Extra Low Impedance	-55°C~105°C	6.3~50V	4.7μF~1500μF	2000H
	CDFZ	Extra Low Impedance	-55°C~105°C	6.3~100V	4.7μF~1500μF	2000~5000H
Non-polarized Type	CDUN	Wide Temperature Bi-polarized	-55°C~105°C	6.3~50V	0.1μF~470μF	1000H
Low Leakage Current	CDUK	Low Leakage Current	-55°C~105°C	6.3~50V	0.1~470μF	2000H
Long Life Type	CDUL	Wide Temperature Long Life Product	-55°C~105°C	6.3~100V	4.7μF~1500μF	3000~5000H
	CDUH	High Temperature Reliable Product	-40°C~125°C	10~450V	1μF~4700μF	1000~5000H
	CDUV	LED Power Driver-economy Goods	-40°C~105°C	160~450V	1μF~22μF	3000H
	CDUD	LED Power Driver Standard	-40°C~105°C	160~450V	1μF~22μF	6000H
	CDUW	Low Life Product	-40°C~105°C	6.3~450V	1μF~1000μF	10000H

SNAP-IN ALUMINUM ELECTROLYTIC CAPACITOR

Class	Series	Feature	Temperature Range	Rated Voltage Range	Capacitance Range	Load Life
Standard Type	CD293	Lug / Snap-in Terminal Type, Standard	-40(-25)°C~85°C	10~500V	56μF~82000μF	2000H
	CD294	Lug / Snap-in Terminal Type, Wide Temperature	-40(-25)°C~105°C	10~500V	47μF~56000μF	2000H
Long Life Type	CDKP	Lug / Snap-in Terminal Type, Long Life Assurance	-40(-25)°C~105°C	10~450V	47μF~56000μF	3000H
	CDEP	Lug / Snap-in Terminal Type, Long Life Assurance	-40(-25)°C~105°C	10~450V	82μF~47000μF	5000H
Low Impedance Type	CDDP	Lug / Snap-in Terminal Type, Long Life Assurance, Low Impedance	-40(-25)°C~85°C	160~450V	47~6800μF	5000H
	CDFP	Lug / Snap-in Terminal Type, Long Life Assurance, Low Impedance	-40(-25)°C~105°C	10~450V	100μF~33000μF	5000H

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Aillen®
EXPERT IN PASSIVE PARTS

Dongguan Aillen Electronic Technology Co., Ltd established in1995. Since then it has been continuously increased R&D investment, expanded capacity, improved services and committed to becoming the most professional one-stop passive components supplier.

R&D centers: 4 centers(Chengdu, Dongguan, Suzhou, Shenzhen in China)
Patents #: 56
Factory: 3 bases(Suzhou,Dongguan,Jiangxi in China)
Factory area: 100,000 square meters
Employees: more than 1,000
Headquarter: Dongguan (main branch offices in Southeast Asia, Europe, America)
Main products: Capacitors, Resistors, Inductors
Main application: industrial, new energy, medical, automotive, security and home appliances etc.

We will continue to focus on the customer first, continuously improve the quality of product and service, complete passive component supporting services, create greater value for customers, achieve a win-win situation, and look forward to becoming the best cooperation in your supply chain partner.

COMPANY
INTRODUCTION



DIS CAPACITOR

Class	Series	Rated Voltage Range	Capacitance Range	Temperature Range
Y1, Y2, X1	DCF	250VAC/400VAC	5pF~4.7nF	-25~125℃
X2	MKP	250VAC/400VAC	5pF~10nF	-40~105℃
Class I	DCC	50VDC, 250VDC, 500VDC	0.5pF~820pF	-25~125℃
Class II	DCt	50VDC, 250VDC, 500VDC	220pF~10nF	-25~125℃
Class III	DCS	16VDC, 25VDC, 50VDC	10nF~220nF	-25~125℃
High Voltage Dis Capacitor	DCH	1KVDC, 2KVDC, 3KVDC	0.5pF~4.7nF	-25~125℃
Ultra-high Voltage Dis Capacitor	DCG	4VDC~15KVDC	100pF~2.2nF	-25~125℃

METALLIZED FILM CAPACITOR

Class	Series	Rated Voltage	Capacitance Range	Temperature Range
X2	MKP	250VAC~310VAC	0.0047~2.2μF	-40~110℃
Metallized Polyester Film Capacitor (General Purpose)	MEF(Dipped)	100VDC/250VDC 400VDC/630VDC	0.01~10.0μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+110℃ (Derating Ratio Of Rated Voltage To +85℃→+110℃: 1.25% Per °C For Rated Voltage)
	MFF (Dipped Small Size)	100VDC/250VDC 400VDC/630VDC	0.01~10.0μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+110℃ (Derating ratio of rated voltage to +85℃→+110℃: 1.25% per °C for Rated Voltage)
	MEB(Box)	100VDC/250VDC 400VDC/630VDC	0.01~10.0μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+110℃ (Derating ratio of rated voltage to +85℃→+110℃: 1.25% per °C for Rated Voltage)
	MEA(Axial)	100VDC/250VDC 400VDC/630VDC	0.01~10.0μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+110℃ (Derating ratio of rated voltage to +85℃→+110℃: 1.25% per °C for Rated Voltage)
	MET(Axial)	100VDC/250VDC 400VDC/630VDC	0.15~10.0μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+110℃ (Derating ratio of rated voltage to +85℃→+110℃: 1.25% per °C for Rated Voltage)
Metallized Polyester Film Capacitor (PFC Purpose)	MFTD(Dipped)	450VDC/630VDC	0.033~3.3μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+110℃ (Derating ratio of rated voltage to +85℃→+110℃: 1.5% per °C for Rated Voltage)
	MFTB(Box)	450VDC/630VDC	0.022~2.2μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+110℃ (Derating Ratio Of Rated Voltage To +85℃→+110℃: 1.5% Per °C For Rated Voltage)
Aluminum Foil & Polypropylene Film Capacitor (Pulse Capacitor)	PPSH(Dipped)	800VH/1000VH/1200VH	0.001~0.1μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+110℃ (Derating Ratio Of Rated Voltage To +85℃→+110℃: 1.5% Per °C For Rated Voltage)
Metallized Polypropylene	MPP(Dipped)	100VDC/250VDC 400VDC/630VDC	0.01~3.3μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+110℃ (Derating Ratio Of Rated Voltage To +85℃→+110℃: 1.5% Per °C For Rated Voltage)
	MPB(Box)	100VDC/250VDC/400VDC 630VDC/1000VDC	0.01~3.3μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+110℃ (Derating Ratio Of Rated Voltage To +85℃→+110℃: 1.5% Per °C For Rated Voltage) *For Temperature Between +85℃ And +110℃, A Decreasing Factor Of 2.0% Per Deg Reer°C On The Nominal Voltage VR (d.c) Has To Be Applied. *For Temperature Between +85℃ And +110℃, A Decreasing Factor Of 1.25% Per Deg Reer°C On The Nominal Voltage VR (a.c) Has To Be Applied.)
	HPB(Box)	630VDC/1000VDC	0.01~1.2μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+110℃ (Derating Ratio Of Rated Voltage To +85℃→+110℃: 1.5% Per °C For Rated Voltage) *For Temperature Between +85℃ And +125℃, A Decreasing Factor Of 2.0% Per Degreee°C On The Nominal Voltage VR (d.c) Has To Be Applied.)
	MPA(Axial)	250VDC/400VDC/630VDC	0.047~10.0μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+110℃ (Derating Ratio Of Rated Voltage To +85℃→+110℃: 1.5% Per °C For Rated Voltage)
	MPT(Axial)	250VDC/400VDC/630VDC	0.1~10.0μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+110℃ (Derating Ratio Of Rated Voltage To +85℃→+110℃: 1.5% Per °C For Rated Voltage)
	MPPN(Dipped)	450VDC/630VDC	0.022~2.2μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+110℃ (Derating Ratio Of Rated Voltage To +85℃→+110℃: 1.5% Per °C For Rated Voltage)
Metallized Polypropylene Film Capacitor (PFC Purpose)	MPN2(Dipped)	450VDC/520VDC/630VDC	0.068~2.2μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+110℃ (Derating Ratio Of Rated Voltage To +85℃→+110℃: 1.5% Per °C For Rated Voltage)
	MP4(Dipped)	300VDC/400VDC/500VDC 700VDC/900VDC	0.001~0.15μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+110℃ (Derating Ratio Of Rated Voltage To +85℃→+125℃: 1.25% Per °C For Rated Voltage)
	MPBN(Box)	450 VDC/630 VDC	0.01~2.2μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+110℃ (Derating Ratio Of Rated Voltage To +85℃→+125℃: 1.25% Per °C For Rated Voltage)
	MPN3(Box)	450VDC/520VDC/630VDC	0.068~2.2μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+110℃ (Derating Ratio Of Rated Voltage To +85℃→+125℃: 1.5% Per °C For Rated Voltage)
	HPN3(Box)	450VDC/520VDC/630VDC	0.22~2.2μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+125℃ (Derating Ratio Of Rated Voltage To +85℃→+125℃: 1.5% Per °C For Rated Voltage)
	MPS(Box)	300VDC/400VDC/500VDC 700VDC/900VDC	0.001~0.15μF	-40℃ ~ +85℃ Usable Upper Category Temperature:+110℃ (Derating Ratio Of Rated Voltage To +85℃→+110℃: 1.25% Per °C for Rated Voltage)

MLCC

Class	Dielectric	Size	Capacitance Range	Rated Voltage	Operating Temperature	Capacitance characteristic
General	NPO	0201, 0402, 0603 0805, 1206, 1210 1812	0.1pF ~ 0.1μF	10V, 16V, 25V, 50V, 100V	-55~+125℃	±30PPM
	X7R		100pF ~47μF	10V, 16V, 25V, 50V, 100V	-55~+125℃	±15%
	X5R		100pF ~220μF	6.3V, 10V, 16V, 25V, 50V, 100V	-55~+85℃	±15%
	X6S		0.1pF ~100μF	6.3V, 10V, 16V, 25V, 50V, 100V	-55~+105℃	±22%
	X7S		0.1pF ~100μF	6.3V, 10V, 16V , 25V , 50V , 100V	-55~+125℃	±22%

Class	Dielectric	Size	Capacitance Range	Rated Voltage	Operating Temperature	Capacitance characteristic
Medium High Voltage	NPO	0402, 0603, 0805 1206, 1210, 1812	0.1pF ~ 0.022μF	200V, 250V, 500V, 630V, 1000V 1500V, 2000V, 3000V, 4000V	-55~+125℃	±30PPM
	X7R		100pF ~1.0μF		-55~+125℃	±15%
RF (Low ESRand high Q)	NPO	01005, 0201, 0402 0505, 0603, 0805, 1111	0.1pF ~ 1000pF	6.3V, 25V, 50V, 100V 200V, 250V, 500V, 1500V	-55~+125℃	±30PPM
	X8G	0402, 0603, 0805	0.1pF ~82pF	250V, 500V	-55~+150℃	±30PPM
SH (Soft termination)	NPO	0402, 0603, 0805	0.1pF ~ 0.1μF	6.3V, 10V, 6V, 25V, 50V, 100V 200V, 250V, 500V, 630V, 1000V	-55~+125℃	±30PPM
	X7R	1206, 1210, 1808 1812, 2220, 2225	100pF ~47μF		-55~+125℃	±15%
	XSR		0.033μF~100μF		-55~+85℃	±15%
MT(Automotive)	NPO	0201 0402 0603 0805 1206 1210	0.1pF ~ 0.047μF	10V, 16V, 25V, 50V, 100V 200V, 250V, 500V, 630V, 1000V	-55~+125℃	±30PPM
	X7R	0201 0402 0603 0805 1206 1210	100pF ~10μF	10V, 16V, 25V, 50V, 100V 200V, 250V, 500V, 630V, 1000V	-55~+125℃	±15%

RESISTORS SERIES

Series	Features	Rated Power Range(W)	Resistance Range(Ω)	Tolerance	TCR(ppm/°C)
SMF	SMF Power Metal Film Chip Resistors	2W	10R-2M	±1% ±5%	±100ppm/°C
		3W	10R-2M	±1% ±5%	±100ppm/°C
		5W	10R-2M	±1% ±5%	±100ppm/°C
		1WL	10R-2M	±1% ±5%	±100ppm/°C
		2WL	10R-2M	±1% ±5%	±100ppm/°C
		3WL	10R-2M	±1% ±5%	±100ppm/°C
SMW	SMW Power Wire Wound Chip Resistor	2W	0R1-200R	±1% ±5%	±200ppm/°C
		3W	0R1-300R	±1% ±5%	±200ppm/°C
		5W	0R1-680R	±1% ±5%	±200ppm/°C
		1WL	0R1-200R	±1% ±5%	±200ppm/°C
		2WL	0R1-300R	±1% ±5%	±200ppm/°C
		3WL	0R1-680R	±1% ±5%	±200ppm/°C
MM	Metal Film MELF Resistor	MM16 (1/6W)	0R51-1M	±1% ±2% ±5%	±50ppm/°C, ±100ppm/°C
		MM204(1/4W)	0R51-1M	±1% ±2% ±5%	±50ppm/°C, ±100ppm/°C
		MM207(1/3W)	0R51-1M	±1% ±2% ±5%	±50ppm/°C, ±100ppm/°C
		MM52(1/2W)	0R51-1M	±1% ±2% ±5%	±50ppm/°C, ±100ppm/°C
		1/4W	0R1-200R	+5%(J) or ±1%(F)	±300ppm/°C
		1/2W	0R1-300R	+5%(J) or ±1%(F)	±300ppm/°C
		1W	0R1-500R	+5%(J) or ±1%(F)	±300ppm/°C
		2W	0R1-1K	+5%(J) or ±1%(F)	±300ppm/°C
		3W	0R1-1K	+5%(J) or ±1%(F)	±300ppm/°C
KNP	KNP Wire Wound Resistor,Flameproof	3WL	0R1-1K2	+5%(J) or ±1%(F)	±300ppm/°C
		5W	0R1-1K2	+5%(J) or ±1%(F)	±300ppm/°C
		6W	0R1-1K5	+5%(J) or ±1%(F)	±300ppm/°C
		7W	0R1-1K5	+5%(J) or ±1%(F)	±300ppm/°C
		8W	0R1-2K2	+5%(J) or ±1%(F)	±300ppm/°C
		10W	0R1-3K3	+5%(J) or ±1%(F)	±300ppm/°C
		20W	Can Be Customized According To The Client's Request		
		1WS	0R1-200R	+5%(J) or ±1%(F)	±300ppm/°C
		2WS	0R1-300R	+5%(J) or ±1%(F)	±300ppm/°C
		3WS	0R1-800R	+5%(J) or ±1%(F)	±300ppm/°C
		4WS	0R1-800R	+5%(J) or ±1%(F)	±300ppm/°C
		5WS	0R1-800R	+5%(J) or ±1%(F)	±300ppm/°C
KNP	KNP-S Wire Wound Resistors,Flameproof (Small Type)	1WS	1R-47R	+5%(J)	4500ppm/°C
		1WS	Can Be Customized According To The Client's Request		
		2W, 3W, 5W	Can Be Customized According To The Client's Request		
		3WL	0R1-1K	+5%(J) or ±2%(G)	±300ppm/°C
		2W, 3W, 5W	Can Be Customized According To The Client's Request		
		1/2W	0R1-3R	±2% ±5%	±300ppm/°C
		1W	0R1-3R	±2% ±5%	±300ppm/°C
		2W	0R1-10R	±2% ±5%	±300ppm/°C
		3W	0R1-10R	±2% ±5%	±300ppm/°C
		3WL	0R1-10R	±2% ±5%	±300ppm/°C
		5W	0R1-20R	±2% ±5%	±300ppm/°C
		6W	0R1-20R	±2% ±5%	±300ppm/°C
NKNP	NKNP Non-Inductive Wound Resistors, Flameproof	7W	0R1-20R	±2% ±5%	±300ppm/°C
		8W	0R1-20R	±2% ±5%	±300ppm/°C
		10W	0R1-20R	±2% ±5%	±300ppm/°C
		20W	Can Be Customized According To The Client's Request		
		1/2W	0R1-3R	±2% ±5%	±300ppm/°C
		1/2W5, 1/2W, 1W, 2W, 3W, 4W	3R9-10M	±2% ±5%	0~1300PPM/°C

Series	Features	Rated Power Range(W)	Resistance Range(Ω)	Tolerance	TCR(ppm/°C)
RN	Precision Metal Film Resistor	1/8W, 1/4WS, 1/4W ,1/2WS 0.6W, 1/2W, 1W, 2W, 3W	10R-2M	±0.5% ±1%	±50ppm/°C ±100ppm/°C
RSN	Metal Oxide Film Resistor, flameproof	1/4W, 1/2W, 1W, 2W	0R22-50K	±2% ±5%	±300ppm/°C
		3WL	0R22-100K	±2% ±5%	±300ppm/°C
		4W	0R22-150K	±2% ±5%	±300ppm/°C
		5W~7W	0R22-200K	±2% ±5%	±300ppm/°C
RSS	Metal Oxide Film Resistor, flameproof(Small Type)	1/2W, 1W, 2W, 3W	0R22-50K	±2% ±5%	±300ppm/°C
		5W	0R22-100K	±2% ±5%	±300ppm/°C
		6W	0R22-150K	±2% ±5%	±300ppm/°C
		7W-10W	0R22-200K	±2% ±5%	±300ppm/°C
RSU	Metal Oxide Film Resistor (ultra Small Type)	1W, 2W, 3W	0R22-1M	±2% ±5%	±300ppm/°C
RT	RT Metal Glaze High Voltage Resistors	1/4W , 1/2W, 1W, 2W	47K-33M	±1% ±5%	±200ppm/°C
		Can Be Customized:Low Resistance Value To 10K, High Resistance Value To 1G (±10%)			
FKN	FKNW Fusible Wire Wound Resistors,Flameproof	1W	0R1-20R	±2% ±5%	±300ppm/°C
		2W	0R1-100R	±2% ±5%	±300ppm/°C
		3W	0R1-200R	±2% ±5%	±300ppm/°C
		5W	0R1-200R	±2% ±5%	±300ppm/°C
SQF	Thermal Fuse Cument Resistors	SQF3 (1.6W~2.1W)	0R1-50K	±5%	±300ppm/°C, < 10:±600ppm/°C
		SQF5 (1.6W~2.1W)	0R1-50K	±5%	±300ppm/°C, < 10:±600ppm/°C
		SQF7 (2.2W~2.4W)	0R1-50K	±5%	±300ppm/°C, < 10:±600ppm/°C
		SQF10S (3.2W~4.2W)	0R1-50K	±5%	±300ppm/°C, < 10:±600ppm/°C
SQM	Radial Leaded Type Cement Resistors	SQF10 (2.5W~3.5W)	0R1-50K	±5%	±300ppm/°C, < 10:±600ppm/°C
		2W, 3W, 5W 7W, 10WS, 10W	0R1~100K	±1% ±5%	±300ppm/°C, < 10:±600ppm/°C
SQP	Axial Leaded Type Cement Resistors	2W, 3W, 5W, 7W, 10W 15W, 20W, 25W	0R1-150K	±1% ±5%	±300ppm/°C, < 10:±600ppm/°C
ROP	ROP Cement Resistors, Cylindrical Type	1W, 2W, 3W, 5W	0R1-50K	±5%	±300ppm/°C
CSR	CSR Precision Current Sensing Resistors	1W, 3W, 5W	5mR -25mR	±1% ±2% ±5%	±100ppm/°C

CHIP RESISTOR

Product Type	Series	Size	Rated Power	TCR(ppm/°C)	Tolerance	Max. Operation Voltage (DC or RMS)
Thick Film High Power	CP	0402	1/8W	-200~+400 (10sR<10Ω), ±200 (10sRs1MΩ), 0~+300 (0.1Ω~0.43Ω), 0~+200 (0.47Ω~0.976Ω)	±1% ±5%	50V
		0603	1/8W	±150 (10sR<10Ω), ±100 (10sRs1MΩ)	±1% ±5%	50V
		0603	1/4W	±250 (0.047Ω~0.091Ω), ±200 (0.1Ω~0.976Ω)	±1% ±5%	
		0805	1/4W	±150 (10sR<10Ω), ±100 (10sRs10MΩ)	±1% ±5%	
		0805	1/3W	±200 (0.047Ω~0.091Ω), ±150 (0.1Ω~0.976Ω)	±1% ±5%	150V
		1206	1/2W	±200 (10sR<10Ω), ±100 (10sRs10MΩ), ±1000 (0.020Ω~0.043Ω), ±200 (0.047Ω~0.0976Ω), ±100 (0.1Ω~0.976Ω)	±1% ±5%	200V
		1210	1/2W	±100 (1~1MΩ), ±200 (0.1Ω~0.976Ω)	±1% ±5%	200V
		2010	1W	±100 (1~1MΩ), ±200 (0.040Ω~0.043Ω), ±150 (0.047Ω~0.0976Ω), ±100 (0.1Ω~0.976Ω)	±1% ±5%	200V
		2512	2W	±100 (1~1MΩ), ±200 (0.040Ω~0.043Ω), ±150 (0.047Ω~0.0976Ω), ±100 (0.1Ω~0.976Ω)	±1% ±5%	300V
		Thick Film Industrial grade automotive	AT	0402	1/16W	±100 (R>1MΩ), ±100 (100sR<1MΩ), -200~+400 (1~100)
0603	1/10W			±100 (R>1MΩ), ±100 (100sR<1MΩ), -200~+400 (1~100)	±1% ±5%	50V
0805	1/8W			±100 (R>1MΩ), ±100 (100sR<1MΩ), -200~+400 (1~100)	±1% ±5%	150V
1206	1/4W			±100 (R>1MΩ), ±100 (100sR<1MΩ), -200~+400 (1~100)	±1% ±5%	200V
1210	1/3W			±100 (R>1MΩ), ±100 (100sR<1MΩ), -200~+400 (1~100)	±1% ±5%	200V
1218	1W			±100 (100sRs1MΩ), ±200 (10sR<10Ω and R>1MΩ)	±1% ±5%	200V
2010	3/4W			±100 (100sRs1MΩ), ±200 (10sR<10Ω and R>1MΩ)	±1% ±5%	200V
2512	1W			±100 (100sRs1MΩ), ±200 (10sR<10Ω and R>1MΩ)	±1% ±5%	250V
Thick Film Automotive	AT****	0402	1/10W	±200 (R>1MΩ), ±100(100sR<1MΩ), -200~+400 (1~100)	±1% ±5%	50V
		0603	1/8W	±200 (R>1MΩ), ±100(100sR<1MΩ), -200~+400 (1~100)	±1% ±5%	75V
		0805	1/4W	±200 (R>1MΩ), ±100(100sR<1MΩ), -200~+400 (1~100)	±1% ±5%	150V
		1206	1/4W	±200 (R>1MΩ), ±100(100sR<1MΩ), -200~+400 (1~100)	±1% ±5%	200V
		1210	1/2W	±200 (R>1MΩ), ±100(100sR<1MΩ), -200~+400 (1~100)	±1% ±5%	200V
		1218	1W	±100 (100sRs1MΩ), ±200 (10sR<10Ω and R>1MΩ)	±1% ±5%	200V
		2010	3/4W	±100 (100sRs1MΩ), ±200 (10sR<10Ω and R>1MΩ)	±1% ±5%	200V
		2512	1W	±100 (100sRs1MΩ), ±200 (10sR<10Ω and R>1MΩ)	±1% ±5%	250V