



*Quality , Reliability ,
Cost-Down via Innovation*



第一電阻電容器股份有限公司

FIRST RESISTOR & CONDENSER CO., LTD.

~ To be your valuable partner in the component industry through
constant product innovation and customer satisfaction ~

~ Firstohm, where OHM comes FIRST ~



Certificate No. FM 577844



Certificate No. EMS 594693

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Product Reference Table																							
Type		C3	C3M	CM	CSM	CSR	EFP	EFR	ESM	FGE	FGE26C	FM	HFT	HVM	HVR	HVR	IG	ISC	ISW	M-Series	MM	MM (P)	MMP
Product Name		Composite Film-type Ceramic Composition Resistor	Composite Film-Type Ceramic Composition MELF Resistor	Carbon Film MELF Resistor	Current Sense MELF Resistor	Current Sense Resistor	Enhanced Film Power MELF Resistor	Enhanced Film Fixed Resistor	ESD Surge Absorber MELF	Fusible Resistor	Fusible Resistor Constant Current	Fusible MELF Resistor	High Frequency Terminator Resistor	High Voltage MELF Resistor	High Voltage Resistor	High Voltage Resistor (High Power)	Ignition Fixed Resistor	Ignition Noise Suppression Resistor (Film/Ceramic Composite Type)	Ignition Noise Suppression Resistor (Wirewound Type)	Metal Film Fixed Resistor	Metal Film MELF Resistor	Metal Film MELF Resistor (Pulse Withstanding)	Film MELF Precision Resistor
Industries	Power Supply	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					●	●	●
	Telecomm	●	●	●	●	●	●		●				●	●							●	●	●
	Meter	●	●	●	●	●	●	●	●				●	●	●	●					●	●	●
	Medical	●	●	●	●	●	●	●	●				●	●	●	●					●	●	●
	Automotive			●	●	●	●						●	●			●	●	●		●	●	●
	Lighting			●	●	●	●	●	●				●	●	●	●					●	●	●
	Surface Mount Enabled		●	●	●		●		●			●	●	●				●	●		●	●	●

Resistor	Key Features	Power Rating	Ohm Range	Tolerance
	C3 Composite Film-Type Ceramic Composition Resistor • Innovative and cost-effective C3 technology (NOTE 1) • Conforms to ANSI/AAMI norm EC53:1995/(R)2008 5.5.3 • Suitable replacement for ceramic composition resistors, which are required in most applications. • Maximum permissible surge voltage: 15KV • Typical 1.2/50us pulse load: 90000W	1W	33R ~ 22K	±5%, ±10%, ±20%
	C3M100 Composite Film - Type Ceramic Composition MELF Resistor • SMD-enabled structure • Suitable replacement for ceramic composition resistors, which are required in most applications. • Maximum permissible surge voltage: 15KV • Typical 1.2/50μs pulse load: 20000W	1W	33R ~ 22K	±5% ~ 20%
	CM Carbon Film MELF Resistor • SMD enabled structure • Excellent solderability termination	1/6W ~ 1/2W	0.51R ~ 10M	± 5%

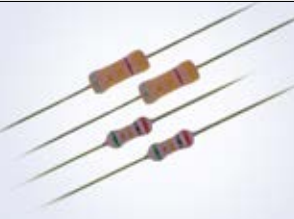
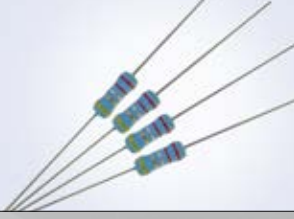
* All products are RoHS/REACH compliant unless otherwise specified. * NOTE 1: patent pending

Resistor	Key Features	Power Rating	Ohm Range	Tolerance
	CSM Current Sense MELF Resistor • High power handling with superior reliability and stability • Conformal multi-layer coating against humidity • SMD enabled structure with excellent solderability • HeatSinkTM technology for better heat dissipation • Typical temperature coefficient: 50ppm ~ 600ppm	1/4W ~ 3W	10mR ~ 510mR	± 1% ~ 5%
	CSR Current Sense Resistor • Offers better reliability than regular low-ohm resistors using our proprietary HeatSinkTM technology • Lead-free tin plated deoxygenized copper wire provides stable value of resistor during operation. • Flame-proof coating available • Typical temperature coefficient: 100ppm ~ 300ppm	1/4W ~ 5W	68mR ~ 510mR	± 1% ~ 5%
	EFP Enhanced Film Power MELF Resistor • High power handling • Superior reliability and stability • SMD enabled structure with excellent solderability • Typical temperature coefficient: 200ppm ~ 800ppm	1/2W ~ 5W	0.51R ~ 10M	± 0.5% ~ 5%

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1986

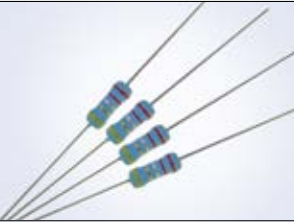
Acquired precision resistor
technology from Japan

Resistor	Key Features	Power Rating	Ohm Range	Tolerance
	EFR Enhanced Film Fixed Resistor • Flameproof multi-layer coating equivalent to UL 94 V-0 • Flameproof feature equivalent to overload test UL 1412 • High power handling in small size • Typical temperature coefficient: 50ppm ~ 500ppm	1/2W ~ 5W	1R ~ 1M	± 1%, ± 2%, ± 5%
	ESM ESD Surge Absorber MELF • Protects the circuit by sparking over the porous layer when surge exceeds the spark-over voltage • Patented construction with reduced costs • High insulation resistance, low capacitance, and fast response time	$\left\{ \begin{array}{l} 80A @ 2/10\mu s \\ 60A @ 8/20\mu s \end{array} \right\}$ $\left\{ \begin{array}{l} \text{Surge} \\ \text{Current} \\ \text{Capacity} \end{array} \right\}$	$\left\{ \begin{array}{l} 1300V \\ DC \\ \text{Spark-Over} \\ \text{Voltage} \end{array} \right\}$	± 30%
	FGE Fusible Resistor • Flameproof multi-layer coating equivalent to UL 94 V-0 • Flameproof feature equivalent to overload test UL 1412 • Color code per MIL & EIA standards • Special tin-plated electrolytic copper lead wire • Typical fusing condition - (a) Standard Type: Fuses within 10 sec. at 5W ~ 6.25W (b) Power Types: Fuses within 60 sec. at 8W ~ 24W	1/4W ~ 3W	2R2 ~ 15K	± 5%

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1989

Acquired chip resistor technology
from Japan

Resistor	Key Features	Power Rating	Ohm Range	Tolerance
	FGE26C Fusible Resistor Constant Current • Delay fusing within 60 sec. in case of excessive current • Constant current fusing type • Fuses at low magnification of power rating (5.2 times) • Flameproof multi-layer coating equivalent to UL 94 V-0 • Flameproof feature equivalent to overload test UL 1412 • Special tin-plated electrolytic copper lead wire • Fuses within 10 sec. at 1.6W	1/4W	0R1 ~ 0R91	±5% ~ 10%
	FM Fusible MELF Resistor • SMD enabled structure • Excellent solderability termination • Fuses within 10 sec. at 9.8W ~ 10.5W	1/3W ~ 1/2W	2R2 ~ 10K	± 5%
	HFT High Frequency Terminator Resistor • SMD enabled structure • Superior frequency response • Excellent solderability termination	1/4W ~ 2W	25R ~ 75R	± 0.1% ~ 1%

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1991

Developed Surge/Pulse Resistant Resistors

Resistor	Key Features	Power Rating	Ohm Range	Tolerance
	HVM High Voltage MELF Resistor • Handles much higher working voltage than general purpose resistors • Pure tin-plated termination for excellent solderability • SMD enabled structure • Anti-surge feature available • Maximum working voltage: 600V DC ~ 8400V DC	1/6W ~ 3W	56K ~ 68M	± 1% ~ 5%
	HVR High Voltage Resistor • Special conductive film withstands high voltage • Maximum working voltage far over that of general-purpose resistors • Suitable for applications such as TV's, high voltage power supply, and high voltage detection. • Entire series is VDE0860 (EN60065) approved under license number 40011593 • Maximum working voltage: 1.6KV DC ~ 12KV DC • Typical temperature coefficient: 200ppm ~ 800ppm	1/4W ~ 3W	91K ~ 100M	± 1% ± 5%
	HVR High Voltage Resistor (High Power) • Special conductive film withstands voltage far over the maximum working voltage of general-purpose resistors. • Suitable for applications such as TV's, high voltage power supply, and high voltage detection. • Maximum working voltage: 35KV DC • Typical temperature coefficient: 800ppm	10W ~ 15W	100K ~ 100M	± 1%, ± 5%

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1991

Developed MELF Resistor

Resistor	Key Features	Power Rating	Ohm Range	Tolerance
	IG Ignition Fixed Resistor • Special coating technique to ensure fast ignition • Color code per MIL & EIA standards • Special conductive film to fuse at high temperature • Auto cut-off after fusing/no sustaining fire hazard • Special tin-plated electrolytic copper lead wire for optimal ease of soldering and mounting	1/6W	1R ~ 150R	± 5%
	ISC Ignition Noise Suppression Resistor (Ceramic Film Composite Type) • Dedicatedly designed for high-voltage spark ignition systems • Proprietary ceramic composite withstands high-voltage surge impacts with long-term stability. • One of few sources in the world capable of manufacturing such type of resistor	1/2W ~ 3W	1K ~ 10K	±5% ~ 20%
	ISW Ignition Noise Suppression Resistor (Wirewound Type) • Dedicatedly designed for high-voltage spark ignition systems • Enhanced weld spot is reliable against surge with long-term stability	2W ~ 3W	1K ~ 5K	±5% ~ 20%

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1998

Developed High-Voltage Resistors

Resistor	Key Features	Power Rating	Ohm Range	Tolerance
	M-Series Metal Film Fixed Resistor • Conformal multi-layer coating • Color code per MIL & EIA standards • Special tin-plated electrolytic copper lead wire	1/6W ~ 3W	0R1 ~ 10M	± 0.1% ~ 5%
	MM Metal Film MELF Resistor • SMD enabled structure • Excellent solderability termination • Typical 1.2/50us pulse load: 32W ~ 70W • Typical temperature coefficient: 25ppm ~ 100ppm	1/6W ~ 1/2W	0R51 ~ 10M	± 1%, ± 2%, ± 5%
	MM102 Metal Film MELF Resistor • SMD-enabled structure • Excellent solderability termination • Typical temperature coefficient: 25ppm - 100ppm	0.2W	0.22R ~ 2.2M	±0.5% ~ 5%

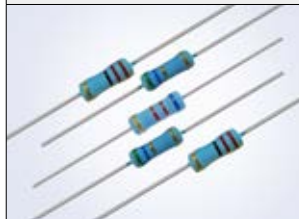
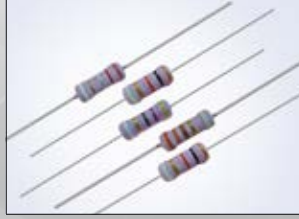
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1999

Established management system according to ISO14000 standards

Resistor	Key Features	Power Rating	Ohm Range	Tolerance
	MM(P) Metal Film MELF Resistor (Pulse Withstanding) • SMD enabled structure • Excellent solderability termination • Enhanced pulse withstanding capability • Typical temperature coefficient: 50ppm, 100ppm	1/6W ~ 1/2W	0R1 ~ 330K	± 1%, ± 2%, ± 5%
	MMP Metal Film MELF Precision Resistor • SMD enabled structure • Excellent solderability termination • Typical 1.2/50us pulse load: 32W ~ 70W • Typical temperature coefficient: 5ppm ~ 50ppm	1/6W ~ 1/2W	10R ~ 1M	± 0.1%, ± 0.25%, ± 0.5%
	MMP(V) Metal Film MELF Precision Resistor, Vehicle Grade • AEC-Q200 Compliant • Excellent solderability termination • Typical 1.2/50μs pulse load: 35W ~ 80W • Typical temperature coefficient: 25ppm - 100ppm	0.25W ~ 0.5W	10R ~ 1M	±0.1% ~ 0.5%

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Resistor	Key Features	Power Rating	Ohm Range	Tolerance
	MO Metal Oxide Film Fixed Resistor • Flameproof multi-layer coating equivalent to UL 94 V-0 • Flameproof feature equivalent to overload test UL 1412 • Solvent resistant • Special tin-plated electrolytic copper lead wire	1/2W ~ 10W	0R1 ~ 330K	± 5%
	MP Metal Film Precision Resistor • Conformal multi-layer coating • Color code per MIL & EIA standards • Special tin-plated electrolytic copper lead wire • Typical temperature coefficient: 10ppm ~ 50ppm	1/6W ~ 1/2W	10R ~ 1M	± 0.05% ~ 0.5%
	MSD Pulse Safety Resistor • Special composite film on high grade ceramic substrate • Flameproof multi-layer coating equivalent to UL 94 V-0 • Flameproof feature equivalent to overload test UL 1412 • Excellent anti-surge capability. Typical 1.2/50us pulse load: 140W ~ 4500W • Absorbs pulse from city power line, direct crossing or inductive coupling and protects electric equipment or parts from accidental shock • Low-cost alternative to wire-wound resistors	1/4W ~ 6W	0R1 ~ 1M	± 0.1% ~ 5%

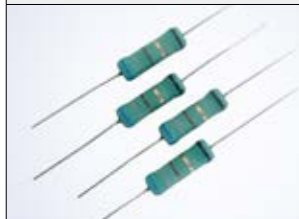
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2004

High-Voltage Resistor (HVR series) passed VDE0860 (EN60065)

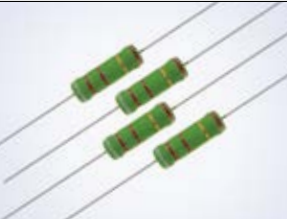
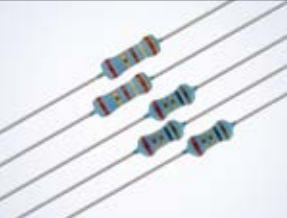
Resistor	Key Features	Power Rating	Ohm Range	Tolerance
	MVM Medium Voltage MELF Resistor • SMD enabled structure • Anti-surge feature available • Pure tin-plated termination for excellent solderability • Handles much higher working voltage than general purpose resistors • Maximum working voltage: 750V DC - 1,000V DC	1/6W ~ 1/4W	56K ~ 40M	±5%
	MVR Medium Voltage Resistor • Higher working voltage with improved reliability • Proprietary conductive film • Especially suitable for SMPS & lighting devices • Low-cost alternative to metal-glazed resistors • Maximum working voltage: 550V DC ~ 7KV DC • Typical temperature coefficient: 100ppm ~ 800ppm	1/4W ~ 2W	47K ~ 100M	± 0.1% ~ ± 5%
	NFR Non Flammable Carbon Film Resistor • Conformal multi-layer non-flammable coating • Color code per MIL & EIA standards • Special tin-plated electrolytic copper lead wire	1/6W ~ 2W	1R ~ 10M	± 5%

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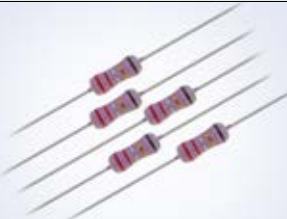
Resistor	Key Features	Power Rating	Ohm Range	Tolerance
	NWA Non-inductive Wire Wound Resistor • Flameproof multi-layer coating equivalent to UL 94- V-0 • Flameproof feature equivalent to overload test UL 1412 • Special wire winging technique • Special tin-plated electrolytic cooper lead wire	6W ~ 10W	0.1R ~ 1K1	±5%
	PMA Professional Metal Film Axial Resistor • Conformal multi-layer coating • Excellent stability and better power handling • Typical temperature coefficient: 5ppm ~ 100pm	2/5W ~ 1.2W	1R ~ 4M7	± 0.1% ~ 5%
	PPR Pulse Protective Resistor • Application: high-frequency, sharp-impulse circuits. • Protects active components in missile detonators, triac switching circuits, etc. • Offers better performance than carbon composition resistor. • No "sintering effect" caused by high surge that greatly decreases resistance value. • Conformal multi-layer non-flammable coating • Maximum permissible surge voltage: 5KV ~ 20KV • Typical 1.2/50us pulse load: 75W ~ 1300W	1/4W ~ 2W	2R2 ~ 4M7	± 5%

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First non-resistor product officially launched - Spark-Gap Surge Absorber (SGS) **2010**

Resistor	Key Features	Power Rating	Ohm Range	Tolerance
	PSR Power Sink Resistor - Designed to replace cement resistors - Auto insertion feasible - Enhanced conductive film absorbs pulse noise - Superior-grade ceramic core dissipates heat efficiently - Flameproof multi-layer coating equivalent to UL 94 V-0 - Flameproof feature equivalent to overload test UL 1412 - Maximum permissible surge voltage: 20KV - Typical 1.2/50us pulse load: 1700W	6W	1R ~ 4M7	± 5%
	PWR Power Metal Film Resistor - Conformal multi-layer coating - Color code per MIL & EIA standards - Special tin-plated electrolytic copper lead wire - Typical temperature coefficient: 250ppm	0.6W ~ 2W	0R22 ~ 1M	± 5%
	R-Series Carbon Film Power Resistor - Conformal multi-layer coating - Color code per MIL & EIA standards - Special tin-plated electrolytic copper lead wire - Non-flammable coating option available	1/6W ~ 3W	1R ~ 10M	± 5%

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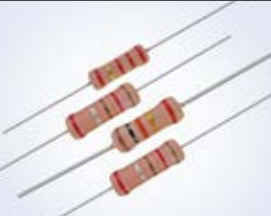
Resistor	Key Features	Power Rating	Ohm Range	Tolerance
	SCP Short Circuit Protection Resistor • Advanced multi-functional design • Cut-off on overload or accidental short circuit • Transient withstanding for power-line coupling • Flameproof multi-layer coating equivalent to UL 94 V-0 • Flameproof feature equivalent to overload test UL 1412 • Possible alternative to wire-wound resistors • Maximum overload voltage: 600V ~ 700V • Fuses within 60 sec. at 12W ~ 30W	1/2W ~ 3W	2R2 ~ 10K	± 5%
	SFP Stabilized Film Power MELF Resistor • Low temperature coefficient and tolerances • Excellent stability • Superior power handling • Typical temperature coefficient: 50ppm ~ 200ppm	1/2W ~ 3W	0R5 ~ 10M	± 0.5% ~ 5%
	SFP(V) Stabilized Film Power MELF Resistor, Vehicle Grade • AEC-Q200 Compilcant • Low temperature coefficient and terance • Superior power handling • Typical temperature coefficient: 25ppm - 50ppm	1/2W ~ 3W	1K ~ 5K	±1% ~ 5 %

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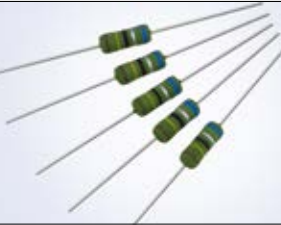
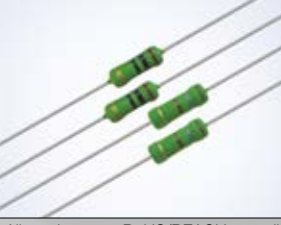
Resistor	Key Features	Power Rating	Ohm Range	Tolerance
	SGS Spark-Gap Surge Absorber • Low-cost patented construction (EP 09000962.2) • No light-dark effect • Low capacitance / short response time / fast ignition • Response time: ≤1ns	$\left[\begin{array}{l} 80A @2/10\mu s \\ 60A @8/20\mu s \end{array} \right]$ Surge Current Capacity	1550V ~ 3300V DC $\left[\begin{array}{l} \text{Spark-Over} \\ \text{Voltage} \end{array} \right]$	± 30%
	SL Slug Resistor • Specially treated metal caps withstand abrasions, impacts, and corrosions, so as to reduce contact resistance during operation. conductive film is enhanced to withstand abrasions, impacts, and corrosions as well. Suitable for clip-in (embedded) application like switches with neon indicators, neon/LED modules, LED display array, etc. • Protective coating is optional	1/6W ~ 1/2W	1R ~ 9M1	± 5% ~ 10%
	SLC Slug Resistor Center Coated • Specially treated metal caps withstand abrasions, impacts, and corrosions, so as to reduce contact resistance during operation. conductive film is enhanced to withstand abrasions, impacts, and corrosions as well. Suitable for clip-in (embedded) application like switches with neon indicators, neon/LED modules, LED display array, etc.	1/6W ~ 1/2W	1R ~ 9M1	± 5% ~ 10%

* All products are RoHS/REACH compliant unless otherwise specified.

** estimated

Resistor	Key Features	Power Rating	Ohm Range	Tolerance
	SM Stabilized Metal Film MELF Resistor • Conformal coating against humidity • Excellent solderability termination • Typical 1.2/50us pulse load: 32W ~ 70W • Typical temperature coefficient: 25ppm ~ 100ppm	1/6W ~ 1/2W	0R51 ~ 10M	± 1% ~ 5%
 	SRM Surge Resistant MELF Resistor • IEC60065 & UL1676 Compliant • Miniaturized MELF design handles high power • Special conductive film enhances anti-surge capability • Absorbs harmful surge which damages precious devices or components • SMD-enabled alternative to carbon composition resistors • Maximum permissible surge voltage: 2KV ~ 10KV • Typical 1.2/50us pulse load: 60W ~ 6000W • Approved to the safety requirement of VDE0860 under license number 40043961	1/4W ~ 3W	0R1 ~ 1M	± 1% ~ 5%
	SSR Surge Safety Resistor • Designed to replace carbon or ceramic composition resistor • Absorbs harmful surge energy, so to prevent hazard of fire and circuit damage caused by surge energy with a flame proof coating • High-surge applications: fuel ignition systems, power charging/ discharging circuits, TV sets, etc. • Maximum permissible surge voltage: 7.5KV ~ 35KV • Typical 1.2/50us pulse load: 450W ~ 17000W	1/4W ~ 5W	10R ~ 330K	± 5%

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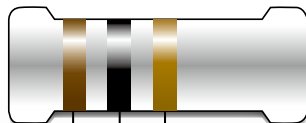
Resistor	Key Features	Power Rating	Ohm Range	Tolerance
	SWA Anti-Surge Wirewound Resistor • Flameproof multi-layer coating equivalent to UL 94 V-0 • Flameproof feature equivalent to overload test UL 1412 • SWA series can be adopted for high surge applications such as high rush current protection for power capacitor, motor start-up protection, car & motorcycle engine ignition, etc. to absorb harmful surge energy and prevent hazard of circuit damage caused by surge impact. • Enhanced weld spot is reliable against surge impact • Special tin-plated electrolytic copper lead wire • Typical 1.2/50us pulse load: 12000W ~ 36000W**	1W ~3W	0R1 ~ 1K5	± 5%
	SWM Anti-Surge Wirewound MELF Resistor • SMD enabled structure • Flameproof multi-layer coating equivalent to UL 94 V-0 • Flameproof feature equivalent to overload test UL 1412 • SWM series can be adopted for high surge applications such as high rush current protection for power capacitor, motor start-up protection, car & motorcycle engine ignition, etc. to absorb harmful surge energy and prevent hazard of circuit damage caused by surge impact. • Enhanced weld spot is reliable against surge impact • Typical 1.2/50us pulse load: 8000W ~ 32000W**	1W ~4W	0R1 ~ 1K5	± 5%
	WA Wirewound Resistors • Flameproof multi-layer coating mequivalent to UL 94 V-0 • Flameproof feature equivalent to overload test UL 1412 • Color code per MIL & EIA standards • Special tin-plated electrolytic copper lead wire	1/2W ~ 8W	0R1 ~ 3K3	± 2% ± 5%

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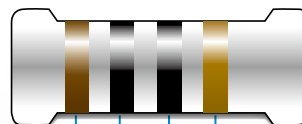
Resistor	Key Features	Power Rating	Ohm Range	Tolerance
	ZMM Zero Ohm Metal Film MELF Resistor • SMD enable structure • Excellent solderability termination • Stable metal film construction	2A ~ 4A { Maximum Current }	< 20mR	N/A
	ZOM Zero Ohm Metal Film Resistor • Conformal multi-layer coating against humidity • Very low resistance • Stable metal film construction • Special tin-plated deoxygenized copper wire for resistance stabilization during operation	3A ~ 5A { Maximum Current }	< 10mR	N/A

* All products are RoHS/REACH compliant unless otherwise specified.

3-BAND-CODE
(Tolerance $\pm 2\%$, $\pm 5\%$, $\pm 10\%$)

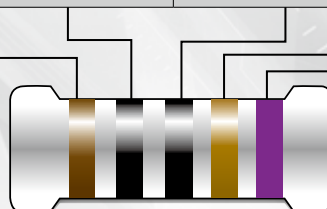


4-BAND-CODE
(Tolerance $\pm 0.25\%$, $\pm 0.5\%$, $\pm 1\%$)



COLOUR	1ST BAND	2ND BAND	3RD BAND	MULTIPLIER	TOLERANCE
Black	0	0	0	1	
Brown	1	1	1	10^1	$\pm 1\%$
Red	2	2	2	10^2	$\pm 2\%$
Orange	3	3	3	10^3	
Yellow	4	4	4	10^4	
Green	5	5	5	10^5	$\pm 0.5\%$
Blue	6	6	6	10^6	$\pm 0.25\%$
Violet	7	7	7	10^7	$\pm 0.1\%$
Grey	8	8	8	10^8	$\pm 0.05\%$
White					
Gold				10^{-1}	$\pm 5\%$
Silver				10^{-2}	$\pm 10\%$

COLOUR	1ST BAND	2ND BAND	3RD BAND	MULTIPLIER	TOLERANCE
Black	0	0	0	1	
Brown	1	1	1	10^1	$\pm 1\%$
Red	2	2	2	10^2	$\pm 2\%$
Orange	3	3	3	10^3	
Yellow	4	4	4	10^4	
Green	5	5	5	10^5	$\pm 0.5\%$
Blue	6	6	6	10^6	$\pm 0.25\%$
Violet	7	7	7	10^7	$\pm 0.1\%$
Grey	8	8	8	10^6	$\pm 0.05\%$
White					
Gold				10^{-1}	$\pm 5\%$
Silver				10^{-2}	$\pm 10\%$



5-BAND-CODE
(Tolerance $\pm 0.1\%$)



FIRST RESISTOR & CONDENSER CO., LTD.

9F., NO.233, Sec. 4, Xinyi RD., Da-an District, Taipei 106, Taiwan.

<http://www.firstohm.com.tw>

TEL: +886 2 2705 1878 FAX: +886 2 2703 6701

E-mail: general@firstohm.com.tw