

## 特征 Features

精度±5%、±2%、±1%和±0.5%	Tolerance ±5%,±2% ,±1% and ±0.5%
使用温度-65°C~170°C	Operating Temperature range -65°C~170°C
电子束焊接结构	Electron beam welding
耐冲击	Ideal for pulse application
电感小于 3 纳亨	Low Inductance < 3nH
符合RoHS 要求	RoHS Compliant
特殊规格可以订做	Customizable



## 标准电气规范 Standard Electrical Specifications

系列 TYPE	尺寸 Size	材质Element Material	阻值 Resistance ( mΩ )	Rthi ( °C/W )	厚度D±0.1 ( mm )	TCR ( ppm/°C )	P70 °C ( W )
A	2512	S	0.2	3	1.4	±175	6
			0.3	5	1.5	±175	6
		M	0.5	6	0.93	±115	6
			1	10	0.45	±100	5
			1.2	-	1.08	±70	6
		K/F	1.5	-	0.86	±70	5
			2	15	0.65	±70	5
			2.5	-	0.5	±70	4
			3	24	0.43	±70	4
			4	27	0.31	±70	3
			5	40	0.28	±70	3
			5	40	0.28	±70	3
		A	3920	M	0.2	3	1.64
0.3	3.5				1.37	±150	10
0.4	-				0.97	±100	9
0.5	7				0.83	±70	9
0.7	9				0.55	±70	8
1	10				0.4	±50	7
K/F	1			7	1.16	±50	8
	1.5			-	0.75	±50	6
	2			14.5	0.56	±50	6
	2.5			-	0.47	±50	5
	3			22	0.37	±50	5
	4			24	0.28	±50	5
	5			-	0.28	±50	4
	5			-	0.28	±50	4
	5			-	0.28	±50	4
A	5930	S	0.1	2	2.0	±200	15
			0.2	3	1.5	±100	15
		M	0.5	3.5	0.6	±75	10
			0.75	6	0.41	±75	10
			1	7	0.86	±50	9
		K/F	1.5	10	0.61	±50	8
			2	13	0.4	±50	7
			2.5	-	0.34	±50	7
			3	17.5	0.29	±50	7
			3	17.5	0.29	±50	7

备注Note:

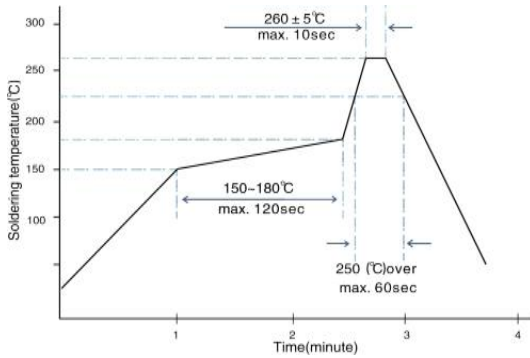
1. 部分产品的温漂可低至20ppm/°C 以内，参看AP系列。

The TCR of some products can be down to ≤20 ppm/°C , refer to AP Series .

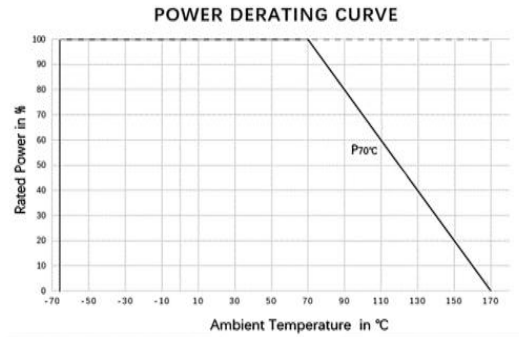
TCR ( ppm/°C ) : Test conditions at 20°C~120°C.

**产品性能 Functional Performance**

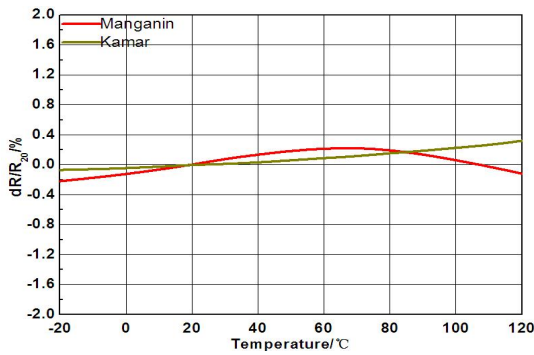
**回流焊温度曲线**  
**Solder Reflow Temperature Condition**



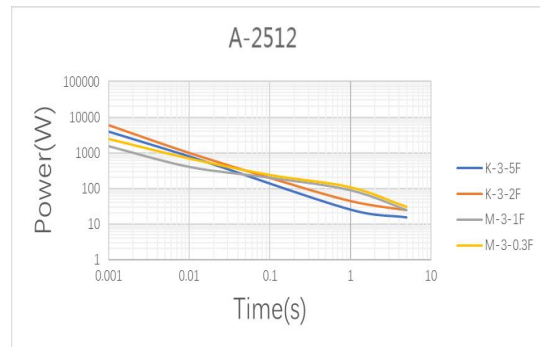
**降功率曲线 Power Derating Curve**



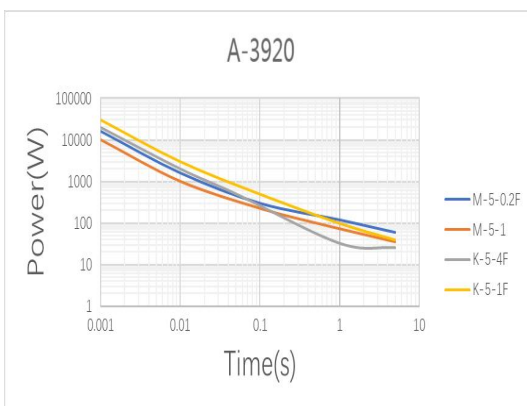
**温度系数曲线**  
**Temperature Coefficient of Resistance Curve**



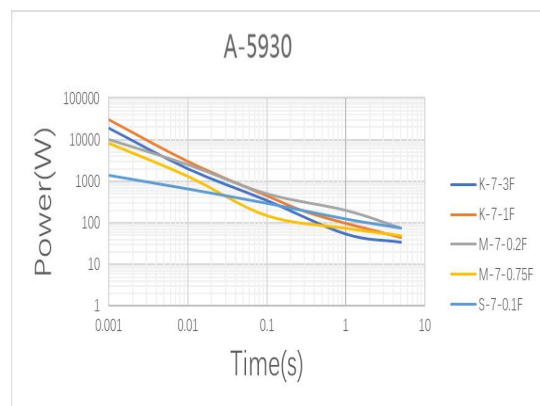
**脉冲曲线 Pulse curve 2512**



**脉冲曲线 Pulse curve 3920**



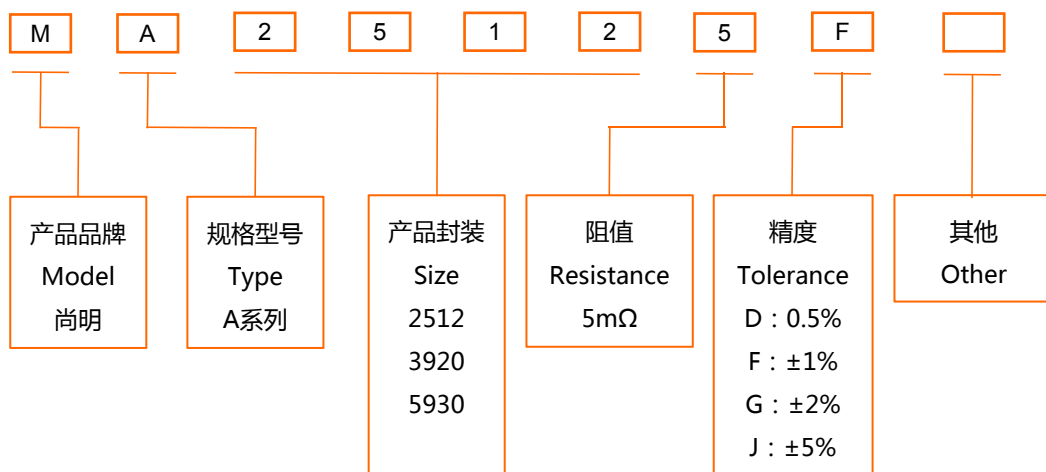
**脉冲曲线 Pulse curve 5930**



## 工作特性 Performance Characteristics

Items	Additional Requirements	Reference	Limits
Temperature Cycling	1000 Cycles(-55°C to +125°C) Measurement at 24±2hours after test conclusion	JESD22Method JA-104	±0.5%
High Temperature Exposure	100hrs.@T=170°C.Unpowered.	MIL-STD-202Method 108	±0.5%
Biased Humidity	1000hrs 85°C/85%RH. Note:Specified conditions:10% of operating power.	MIL-STD-202 Method 103	±0.5%
Operational Life	Condition D Steady State TA=125°C at rated power.	MIL-STD-202 Method 108	±0.5%
Solderability	245°C±5°C,5s±0.5s	J-STD-002C	95% Coverage Minimum
Vibration	5 g's for 20 min, 12 cycles each of 3 orientations. Note: Use 8"X5" PCB .031" thick 7 secure points on one long side and 2 secure points at corners of opposite sides. Parts mounted within 2" from any secure point. Test from 10-2000 Hz.	MIL-STD-202 Method 204	±0.5%
Resistance to Soldering Heat	260°C±5°C , 10s±1s	MIL-STD-202 Method 210	±0.5%
Short Time Overload	5×Rated power for 5 s	MIL-STD-202 Method 301	±0.5%
Mechanical Shock	1) Pulse waveform: Half-Sine pulse. 2) Accelerate peak: 100g. 3) Pulse duration: 6ms. 4) Orientation & Shock time: ±X, ±Y, ±Z; 3 times each orientation, total 18 times	MIL-STD-202H Method 213	±0.5%
ESD	1) Direct Contact (DC): ±6kV; 2) Air Discharge (AD): ±12kV, ±16kV, ±25kV;	AEC-Q200-002 REV-B,	±0.5%
Board Flex	1) PCB board size(H×W×T): 100mm ×40mm ×1.6mm. 2) Press tool: r = 340mm, Width = 20mm. 3) Deformation displacement: 2mm. 4) Duration: 60 (+5) s.	AEC-Q200-005 REV A,	±0.5%
Terminal Strength	1) Press tool: A pointed thruster with a radius of 0.5 mm. 2) Shear force: 17.7N. 3) Duration: 60 (+1) seconds.	AEC-Q200-006 REV A	±0.5%

产品型号说明 Part Number Description

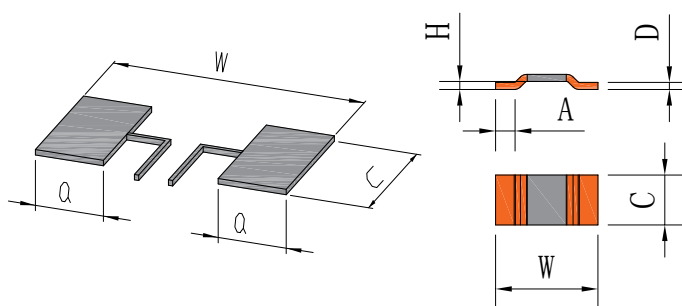


尺寸 Dimensions

(Unit : mm)

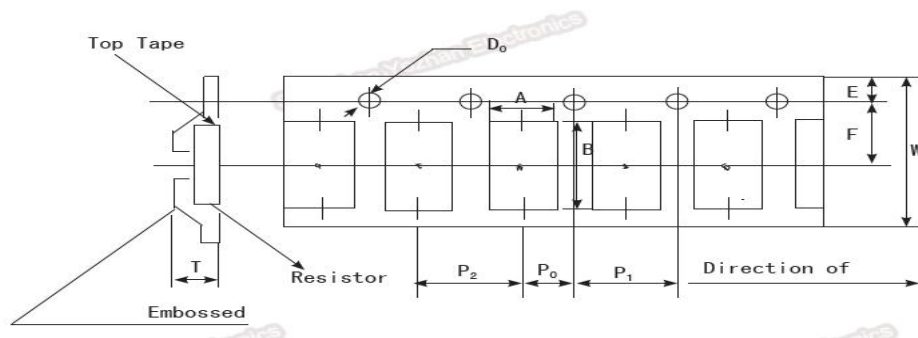
Type	Size	W (mm)	A (mm)	C (mm)	H (mm)	Tolerance (mΩ)
A-S/M/K/F	2512	6.3±0.2	1.2±0.2	3.1±0.3	0.5±0.1	0.2~5
	3920	10.0±0.2	2.2±0.2	5.1±0.4		0.2~5
	5930	15.0±0.3	4.2±0.3	7.6±0.4		0.1~3

Solder pad type	w	c	a
A-S/M/K/F	7	3.4	1.8
	11	6.2	2.7
	16	8.75	5.2



## 包装方式 Embossed Plastic Tape Specifications

储藏条件 Storage Conditions: Temperature:5°C~35°C, Humidity:40%~75%  
包装数量 Number of Package



Size	A±0.1	B±0.1	W±0.3	E±0.1	F±0.1	P <sub>0</sub> ±0.1	P <sub>1</sub> ±0.1	P <sub>2</sub> ±0.1	D <sub>0</sub> ±0.1	T±0.1	*Quantity (pcs)
2512	3.5	6.7	12	1.75	5.5	2	4	4	1.50	依据产品厚度	3000
2512-0.2/0.3	3.7	6.9	16	1.75	7.5	2	4	8	1.50		1000
3920	5.8	10.5	24	1.75	11.5	2	4	12	1.50		2500
5930	8.6	16	24	1.75	11.5	4	4	12	1.50		2000

\*特殊包装数量 Special quantity

P/N	2512-0.2	2512-0.3	2512-0.5	3920-0.2	3920-0.3	5930-0.1	5930-0.2
*Quantity (pcs)	1000	1000	2000	2000	2000	1000	1500