

负温度系数 (NTC) 热敏电阻器

Negative Temperature Coefficient (NTC) Thermistor

通过AEC-Q200检测

Passed AEC-Q200 Testing

MF52珠状测温型NTC热敏电阻器系列

MF52 Series Bead-Type Temperature-Measurement NTC Thermistor



江苏省高新技术产品 High-Tech Product in Jiangsu Province

国家火炬计划项目产品 National Torch Program Product

● 应用范围

- 空调设备
- 暖气设备
- 电子体温计
- 液位传感器
- 汽车电子
- 电子台历
- 手机电池

● Applications

- Air conditioning systems.
- Heating equipments.
- Electronic thermometers.
- Liquid level sensors.
- Automotive electronics.
- Electronic desk calendars.
- Mobile phone batteries.

● 特点

- 测试精度高
- 体积小、反应速度快
- 能长时间稳定工作
- 互换性、一致性好
- 规模化生产、性价比高

● Features

- High Testing Accuracy.
- Compact size, Fast response Time.
- Stable Operation over Extended periods.
- Good Interchangeability and Consistency.
- Mass Production, High Cost-performance Ratio.

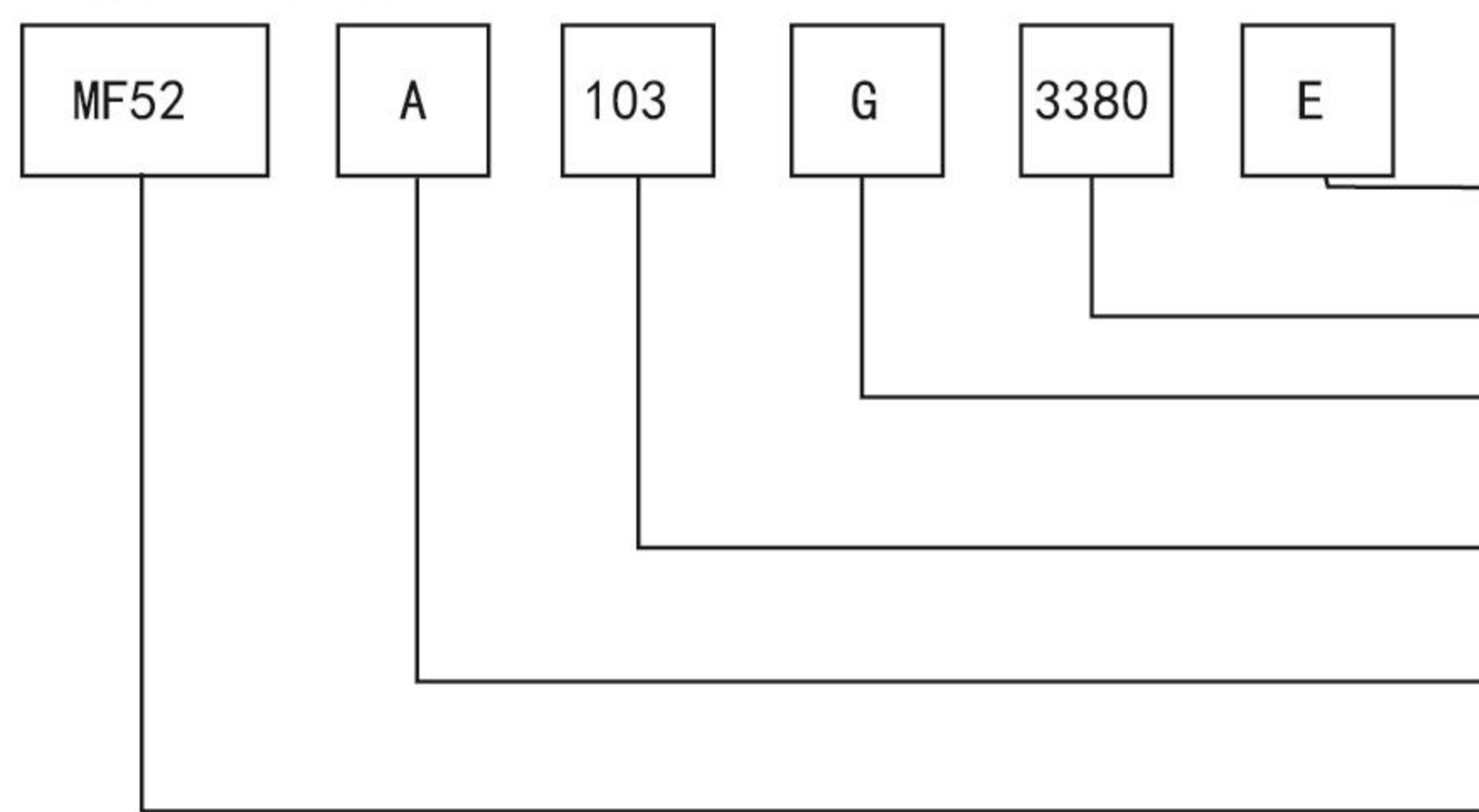
● 安规认证 Certifications


 UL1434 认证
 UL1434 Certification
 (File# E240991)

 CQC 认证
 CQC Certification
 (File# 07001019009)

 TUV 认证
 TUV Certification
 (File# R50245892)

● 产品标志说明 Marking Instruction



B值允许偏差代号 (±1%时省略)
 Allowable B Value Tolerance Code (Annotation omitted for ±1%)
 E: ±0.5%, F: ±1%, G: ±2%

B值: 3380K B Value: 3380K

阻值允许偏差代号: F: ±1%, G: ±2%, H: ±3%, J: ±5%, K: ±10%
 Allowable Resistance Value Tolerance Code: F: ±1%, G: ±2%, H: ±3%, J: ±5%, K: ±10%

额定零功率电阻值: 103为10KΩ
 Rated Zero-Power Resistance Value: 103 represents 10KΩ

不同外型结构和尺寸代号: A型引线为镀锡铜线或镀锡铜包钢线
 Different Dimensions Code: e.g., A leads are tin-plated copper wire or tin-plated copper-clad steel wire

型号: 珠状测温型NTC热敏电阻器
 Type: Bead-Type Temperature-Measurement NTC Thermistor

● 主要技术参数 Main Technical Specifications

型号 Part No.	25°C的零功率电阻值 Zero-Power Resistance at 25°C	B值 (25/50°C) B Value (25/50°C)	25°C时最大额定功耗 Max. Power Rating at 25°C	耗散系数约 Dissipation Constant Approx.	热时间常数约 Thermal Time Constant Approx.	工作温度 Operating Temperature
	R ₂₅	(K)	P _{max} (mW)	δ (mW/°C)	τ (s)	(°C)
MF52□□□3100	0.1~20	3100	100	约2.0mW/°C (静止空气中)	约12s (静止空气中)	-40 ~ +125
MF52□□□2700	0.2~20	3270				
MF52□□□3380	0.5~50	3380				
MF52□□□3470	0.5~50	3470				
MF52□□□3600	1~100	3600				
MF52□□□3950	5~100	3950				
MF52□□□4000	5~100	4000				
MF52□□□4050	5~200	4050				
MF52□□□4150	10~250	4150				
MF52□□□4300	20~1000	4300				
MF52□□□4500	20~1000	4500				

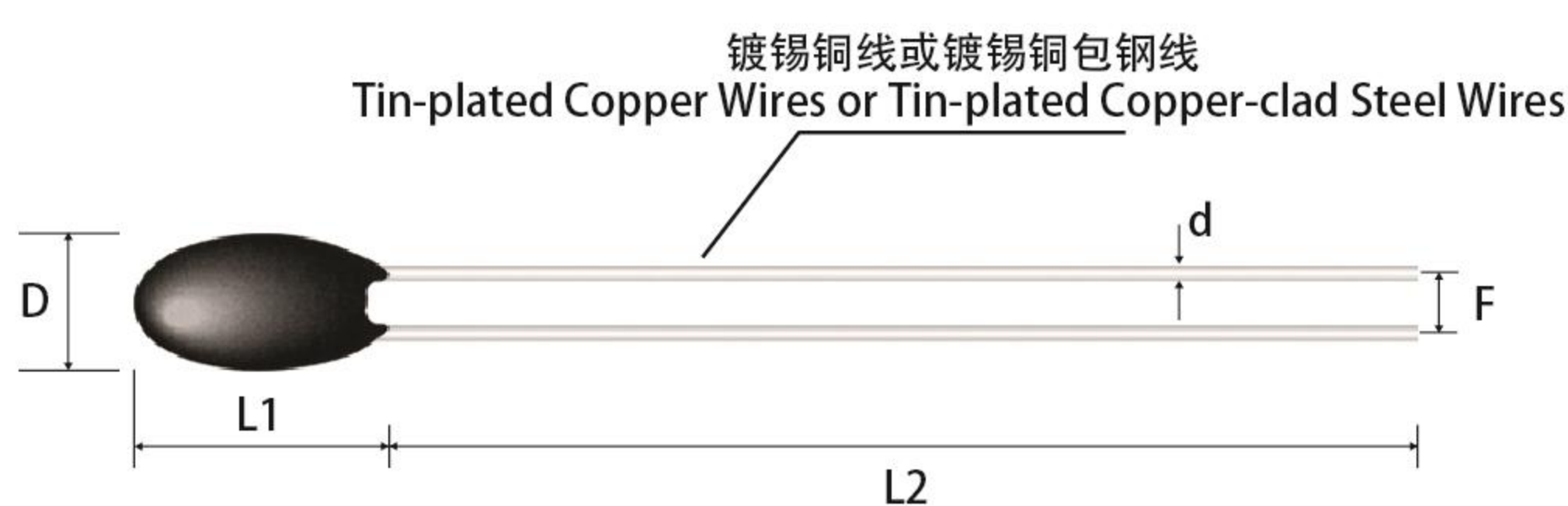
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● 外形结构和尺寸 Dimensions (mm)

A型: 引线为镀锡铜线或镀锡铜包钢线

A type: Tin-plated Copper Wires or Tin-plated Copper-clad Steel Wires

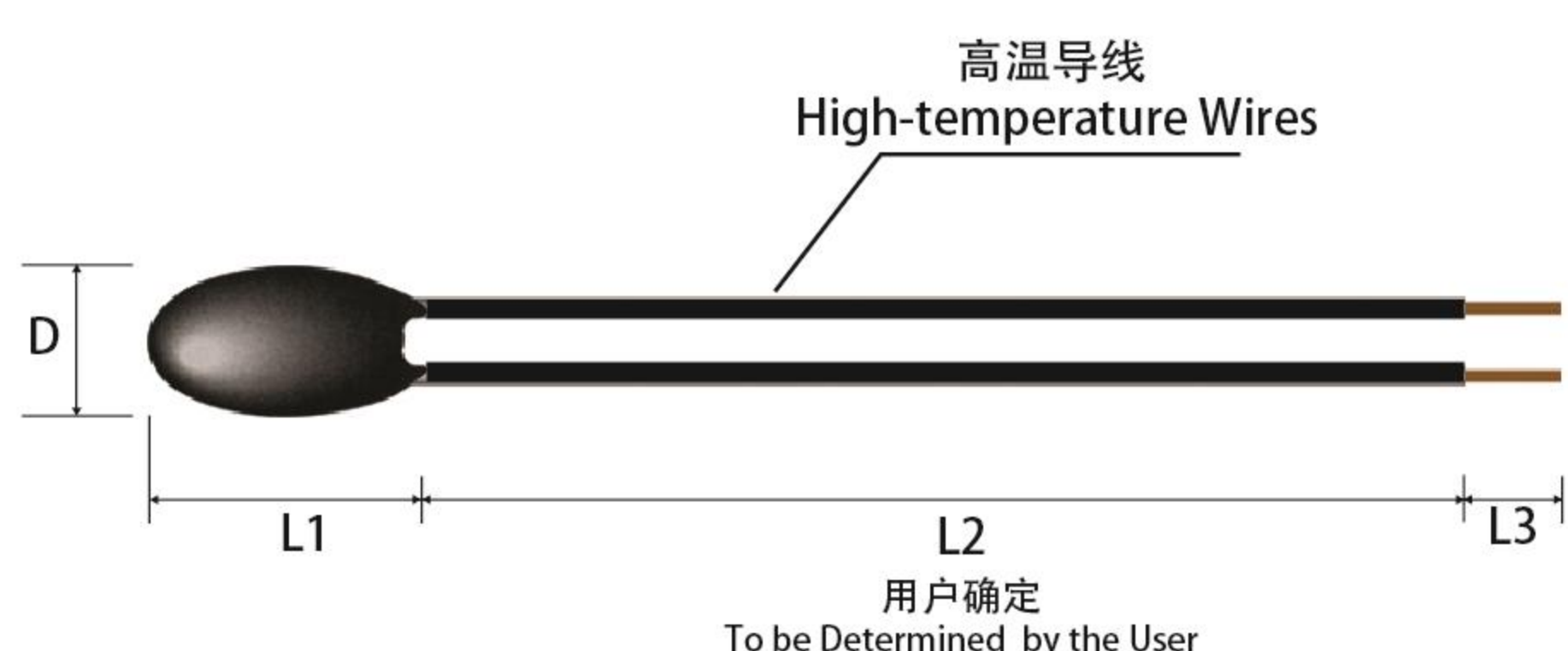


常规尺寸表
Standard Dimension Table

代号 Code	Dmax	L1max	L2min	d±0.05	F±0.5
A ₁	2.5	4.0	25	0.3	1.7
A ₂	3	4.5	25	0.45	2.2

C型: 引线为高温导线

C type: High-temperature Wires

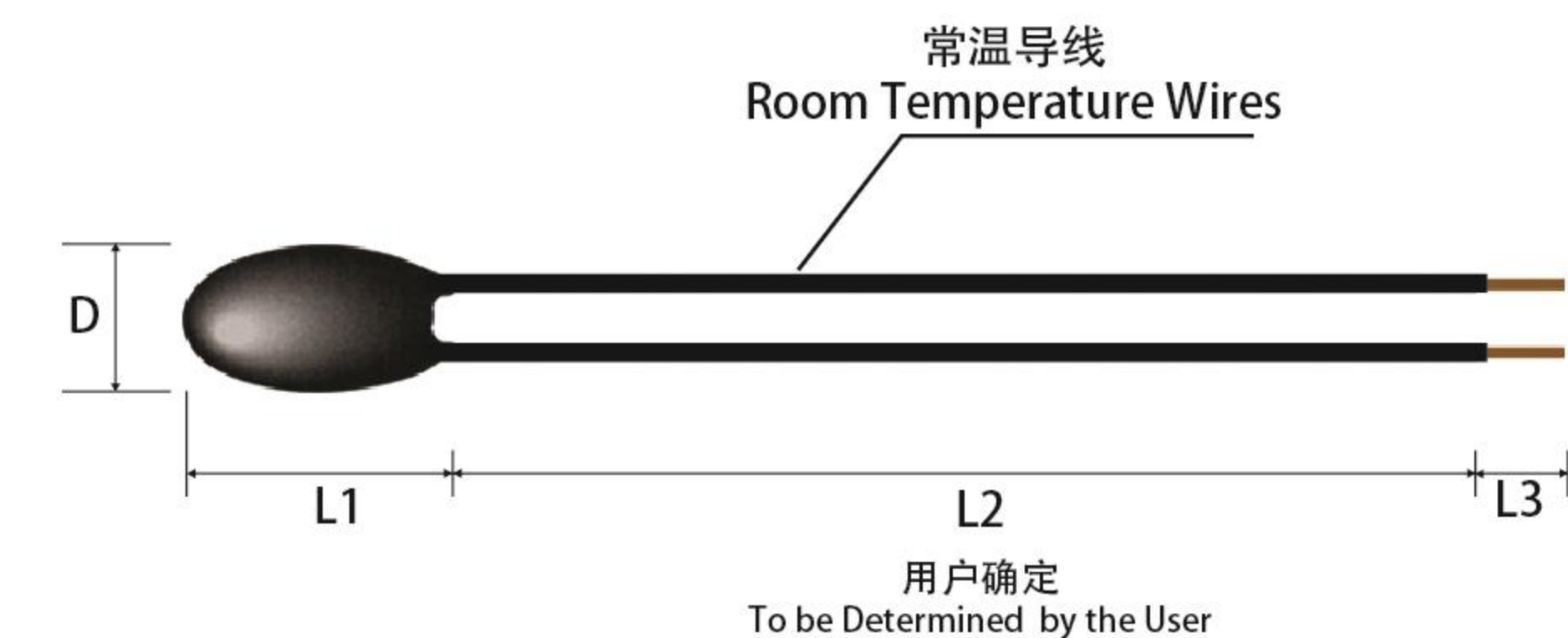


常规尺寸表
Standard Dimension Table

代号 Code	Dmax	L1max	L2min	L3±1	线材型号 Wires Type
C ₁	3	7.5	用户确定 To be Determined by the User	5	30#
C ₂	4	7.5		5	28#

D型: 引线为常温导线

D type: Standard Temperature Wires

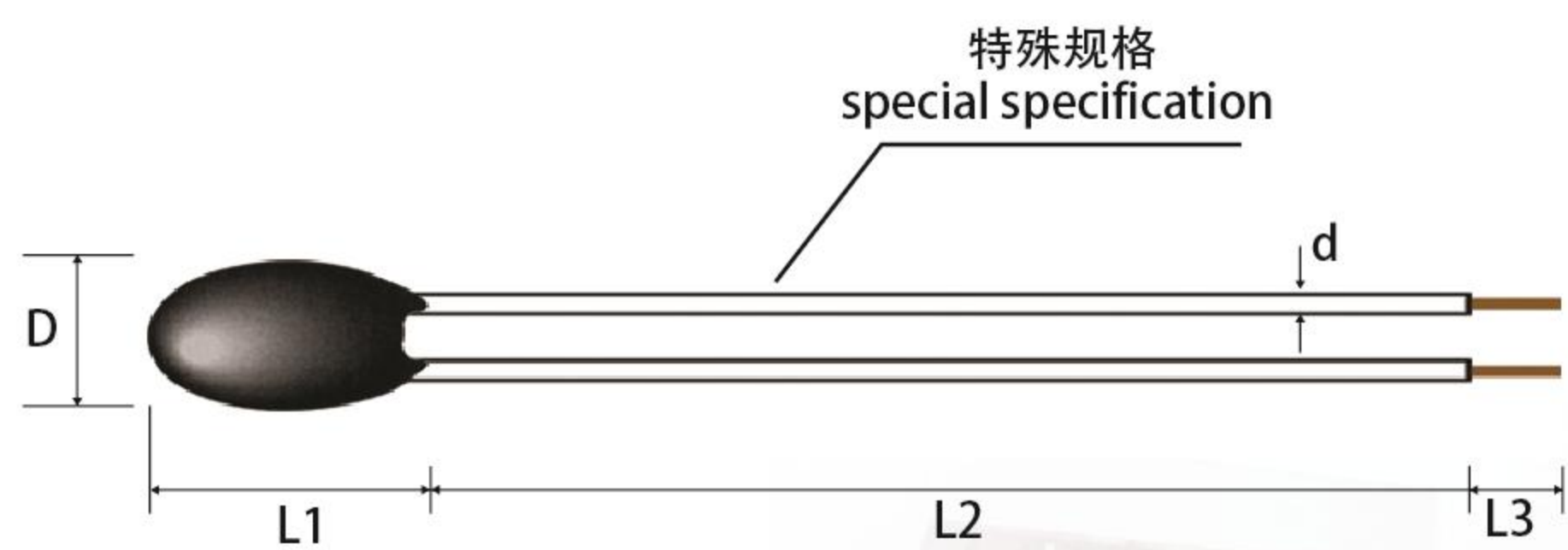


常规尺寸表
Standard Dimension Table

代号 Code	Dmax	L1max	L2min	L3±1	线材型号 Wires Type
D ₁	3	7.5	用户确定 To be Determined by the User	5	30#
D ₂	4	7.5		5	28#

E型: 引线和包封头均为特殊规格

E type: Wires and Encapsulation Heads are of Special Specifications

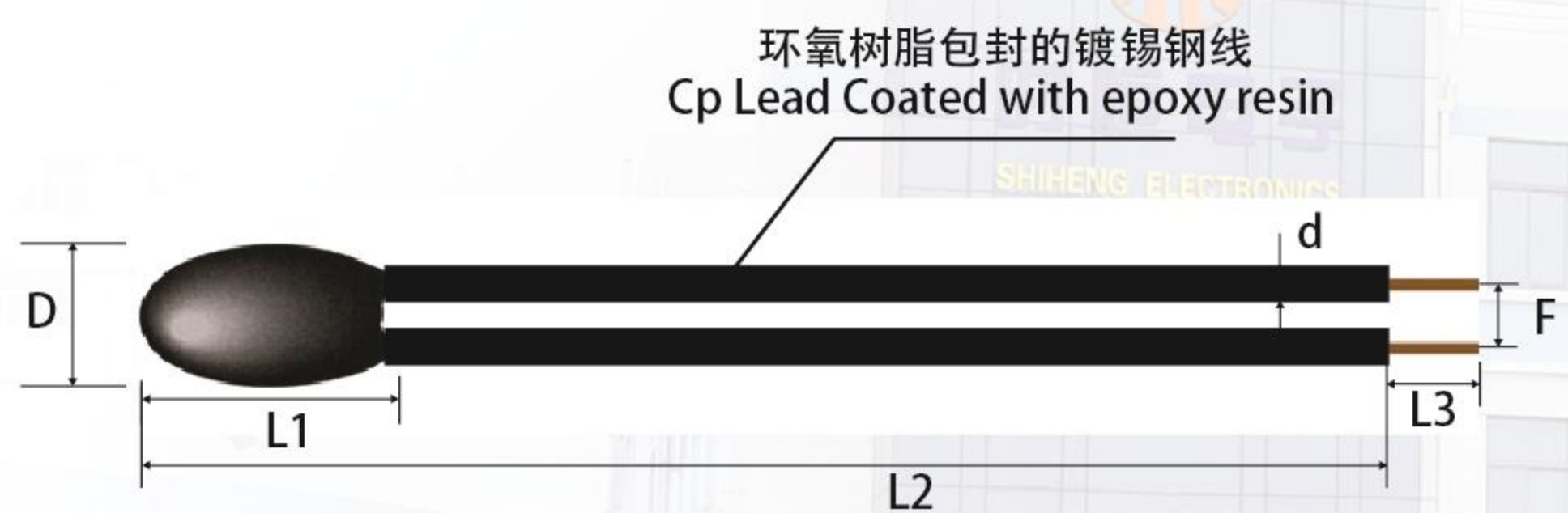


常规尺寸表
Standard Dimension Table

代号 Code	Dmax	L1max	L2min	L3±1	线材型号 Wires Type
E ₁	用户确定 To be Determined by the User			5	用户确定 To be Determined by the User
E ₂	用户确定 To be Determined by the User			5	

DE型: 环氧树脂包封的镀锡线

DE type: Epoxy Resin Encapsulated Tinned Wires

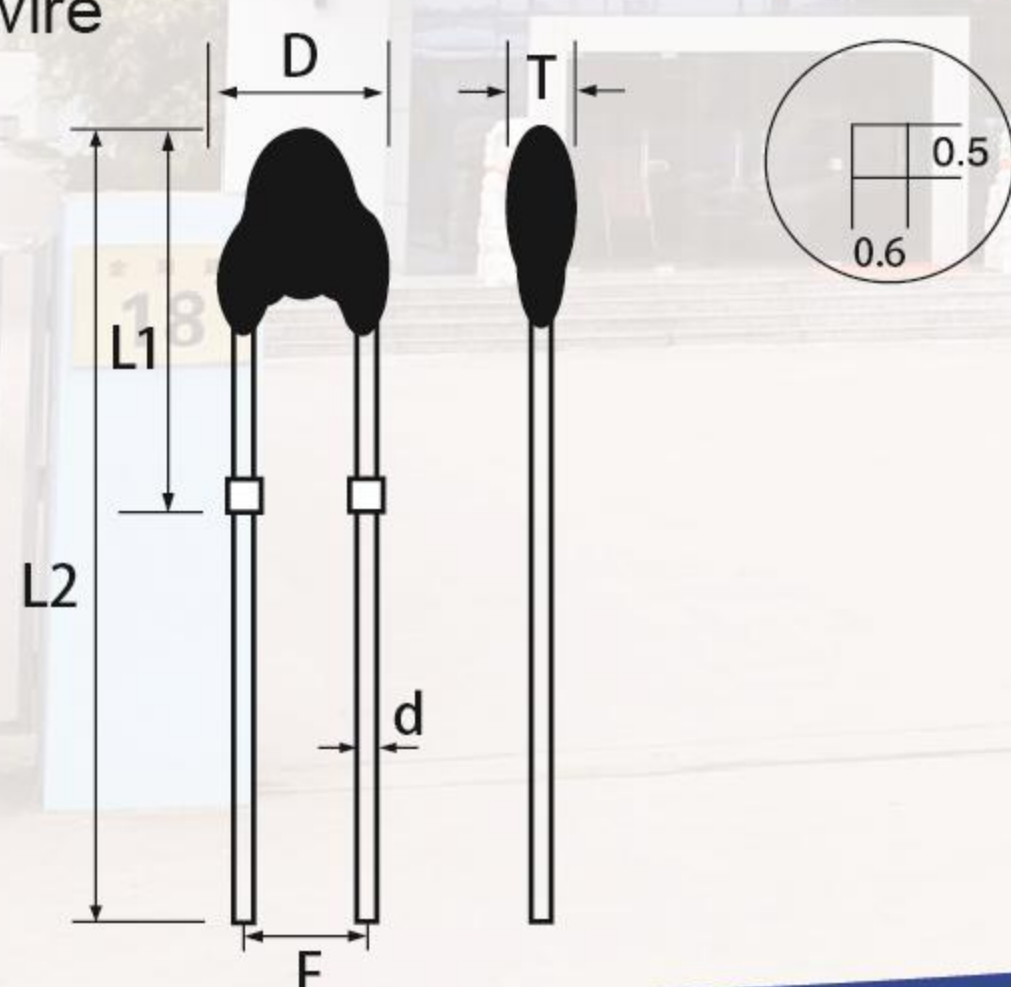


常规尺寸表
Standard Dimension Table

代号 Code	Dmax	L1max	L2max	L3	d±0.05	F±0.5
DE ₁	3	6.0	55	用户确定 To be Determined by the User	0.3	/
DE ₂	4	7.5	35		0.45	/

F型: 引线为镀锡钢线

F type: Tinned steel wire



常规尺寸表
Standard Dimension Table

代号 Code	Dmax	L1max	L2±1.5	d±0.1	F±0.5	T max
F	3.8	9.5	17	0.6	2.5	3.5