

HS Series

HS series Standard Products

HS系列标准产品

- 在高频范围内的低ESR Low ESR at high frequency range
- 允许大纹波电流 Large permissible ripple current

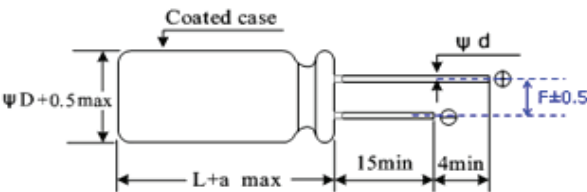
主要技术性能 Specifications

| 项目 item | 性能、特点 Performance Characteristics | |
|--|--|--|
| 使用工作范围 Operating Temperature Range | -55~+105℃ | |
| 额定电压范围 Rated Voltage Range | 2.5~25vdc | |
| 容量公差 Capacitance Tolerance | ±20%(120Hz,+20℃) | |
| 漏电流 Leakage Current(+20℃,max) | 充电2分钟后漏电≤0.2cv ≤0.2CV(uA,after 2 minutes) | |
| 损耗系数 Dissipation Factor (tanδ,at 20℃,120Hz) | 不超过指定值 Not to exceed the value specified | |
| ESR(100KHz) | 不超过指定值 Not to exceed the value specified | |
| 耐久性 Endurance 105℃, 2000h, 不超过额定电压 105℃,2000h,at rated voltage | Capacitance Change | 测试前的值的±20%以内 Within ±20% of the value before test |
| | Leakage Current | 不超过指定值 Not to exceed the value specified |
| | ESR | 不超过指定值的150% Not to exceed 150% of the value specified |
| | Dissipation Factor | 不超过指定值的150% Not to exceed 150% of the value specified |
| 耐湿性 Moisture Resistance 存放在60℃, RH90~95%, 2000h Stored at 60℃,RH90~95%,2000h | Capacitance Change | 测试前的值的±20%以内 Within ±20% of the value before test |
| | Leakage Current | 不超过指定值 Not to exceed the value specified |
| | ESR | 不超过指定值的150% Not to exceed 150% of the value specified |
| | Dissipation Factor | 不超过指定值的150% Not to exceed 150% of the value specified |

纹波电流的频率系数 Frequency Coefficient for Ripple Current

| Frequency | 120Hz≤freq.<1KHz | 1KHz≤freq.<10KHz | 10KHz≤freq.<100KHz | 100KHz≤freq.<300KHz |
|-------------|------------------|------------------|--------------------|---------------------|
| Coefficient | 0.05 | 0.3 | 0.7 | 1 |

外形图及尺寸图 Case size table



| ΦDXL | ΦD+0.5max | a | F±0.5 | Φd±0.05 |
|---------|-----------|-----|-------|----------|
| 5X8 | 5.0 | 1.0 | 2.0 | 0.45 |
| 6.3X7/8 | 6.3 | 1.0 | 2.5 | 0.45/0.6 |
| 6.3X11 | 6.3 | 1.0 | 2.5 | 0.6 |
| 8X8 | 8.0 | 1.0 | 3.5 | 0.6 |
| 8X11.5 | 8.0 | 1.5 | 3.5 | 0.6 |
| 10X12.5 | 10 | 1.5 | 5.0 | 0.6 |

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■ 尺寸清单 Size List

| Cap(uF) \ WV (sv) | 2.5 (2.8) | 4 (4.6) | 6.3 (7.2) | 10 (11.5) | 16 (18.4) | 20 (23) | 25 (27.5) |
|-------------------|-------------------------------|-------------------------|-------------------------------|-------------------------------|----------------------------------|---------------------------------|-------------------------------|
| 10 | | | | | | | 6.3X7/6.3X8 |
| 15 | | | | | | | 6.3×7 |
| 22 | | | | | | 6.3×7 | 5X8/6.3X7 6.3×8 |
| 33 | | | | | | 5X8/6.3X7 6.3×8 | 5X8/6.3X7 6.3×8 |
| 39 | | | | | | 5X8/6.3X7/6.3X8 8X8 / 8X11.5 | 6.3X7/6.3X8/ 8X8 / 8X11.5 |
| 47 | | | | | 6.3X7/6.3X8 | 5X8/6.3X7/6.3X8 8X8 / 8X11.5 | 6.3×8 8X8 / 8X11.5 |
| 68 | | | | | 5X8/6.3X7 6.3×8 | 6.3×11 8X8 / 8X11.5 | 6.3×11 8X8 / 8X11.5 |
| 82 | | | | | 5X8/6.3X7 6.3×8 | 6.3×11 8X8 / 8X11.5 | 6.3×11 8X8 / 8X11.5 |
| 100 | | | | | 5X8/6.3X7/6.3X8 6.3×11/8X11.5 | 6.3X11/8X8/ 8X11.5/10X12.5 | 6.3X11/8X8/ 8X11.5/10X12.5 |
| 150 | | | | 5X8/6.3X7 | 6.3X7/6.3X8/ 6.3×11/8X8 | 8X8 / 8X11.5 | 8X11.5 / 10X12.5 |
| 180 | | | 5X8/6.3X7/ 8X8 / 8X11.5 | 5X8/6.3X7/ 8X8 / 8X11.5 | 6.3×8/6.3X11 8X8 / 8X11.5 | 8X11.5 / 10X12.5 | 8X11.5 / 10X12.5 |
| 220 | | 5X8/6.3X7 | 5X8/6.3X7/ 8X8 / 8X11.5 | 5X8/6.3X7/6.3X8 8X8/8X11.5 | 6.3X11 8X8 / 8X11.5 | 8X11.5 / 10X12.5 | 10X12.5 |
| 270 | 6.3×7 | 5X8/6.3X7 | 5X8/6.3X7/6.3X8 8X8/8X11.5 | 6.3X7/6.3X8 8X8/8X11.5 | 6.3X11/8X8/ 8X11.5/10X12.5 | 10X12.5 | 10X12.5 |
| 330 | 5X8/6.3X7 | 5X8/6.3X7 | 5X8/6.3X7/6.3X8 8X8/8X11.5 | 6.3X8/8X8/ 8X11.5 | 8X8 / 8X11.5 / 10X12.5 | 10X12.5 | 10X12.5 |
| 390 | 5X8/6.3X7 | 5X8/6.3X7 | 6.3X7/6.3X8 8X8/8X11.5 | 8X8 / 8X11.5 | 8X11.5 / 10X12.5 | | |
| 470 | 5X8/6.3X7 | 6.3×7 | 6.3X8/8X8/ 8X11.5 | 6.3X11/8X8/ 8X11.5 | 8X11.5 / 10X12.5 | | |
| 560 | 5×8/6.3X7/6.3X8 8X8/8X11.5 | 6.3X8/8X8 8X11.5 | 6.3X8/8X8 8X11.5 | 8X8 / 8X11.5 | 10X12.5 | | |
| 680 | 6.3X8/8X8 8X11.5 | 8X8 / 8X11.5 | 6.3X8/8X8/ 8X11.5/10X12.5 | 8X8/8X11.5 10X12.5 | 10X12.5 | | |
| 820 | 6.3X8/8X8 8X11.5 | 8X8 / 8X11.5 10X12.5 | 6.3X11/8X8/ 8X11.5/10X12.5 | 8X8/8X11.5 10X12.5 | 10X12.5 | | |
| 1000 | 8X8 / 8X11.5 | 8X11.5/10X12.5 | 8X8/8X11.5 10X12.5 | 8X11.5 / 10X12.5 | | | |
| 1200 | 8X8 / 8X11.5 | 8X11.5/10X12.5 | 8X11.5 / 10X12.5 | 10X12.5 | | | |
| 1500 | 8X8 / 8X11.5 | 10X12.5 | 8X11.5 / 10X12.5 | 10X12.5 | | | |
| 2000 | 8X11.5 / 10X12.5 | 8X11.5/10X12.5 | 10X12.5 | | | | |
| 2500 | 10X12.5 | 10X12.5 | | | | | |
| 2700 | 10X12.5 | 10X12.5 | | | | | |
| 3000 | 10X12.5 | | | | | | |
| 3300 | 10X12.5 | | | | | | |
| 3500 | 10X12.5 | | | | | | |

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■ 尺寸及特性 Dimensions & Characteristics

| W.V (V) | Capacitance (μ F) | LC. (μ A,2min) | tg δ (120Hz,20 $^{\circ}$ C) | ESR (m Ω ,100KHz) | Maximum Permissible Current(mA,rms) | Size Φ DXL(mm) |
|------------|---------------------------|------------------------|--|-----------------------------|--|------------------------|
| 2.5 | 270 | 135 | 0.08 | 18 | 2690 | 6.3X7 |
| | 330 | 165 | 0.08 | 18 | 2690 | 5X8 / 6.3X7 |
| | 390 | 195 | 0.08 | 18 | 2690 | 5X8 / 6.3X7 |
| | 470 | 235 | 0.08 | 18 | 2690 | 5X8 / 6.3X7 |
| | 560 | 280 | 0.08 | 18 | 2690 | 5X8 / 6.3X7 |
| | | | | 16 | 4100 | 6.3X8 |
| | | | | 14 | 4500 | 8X8 / 8X11.5 |
| | 680 | 340 | 0.08 | 16 | 4100 | 6.3X8 |
| | | | | 14 | 4500 | 8X8 / 8X11.5 |
| | 820 | 410 | 0.08 | 16 | 4100 | 6.3X8 |
| | | | | 14 | 4500 | 8X8 / 8X11.5 |
| | 1000 | 500 | 0.08 | 14 | 4500 | 8X8 / 8X11.5 |
| | 1200 | 600 | 0.08 | 14 | 4500 | 8X8 / 8X11.5 |
| | 1500 | 750 | 0.08 | 14 | 4500 | 8X8 / 8X11.5 |
| | 2000 | 1000 | 0.08 | 14 | 4500 / 4900 | 8X11.5 / 10X12.5 |
| | 2500 | 1250 | 0.08 | 14 | 4900 | 10X12.5 |
| | 2700 | 1350 | 0.08 | 14 | 4900 | 10X12.5 |
| 3000 | 1500 | 0.08 | 14 | 4900 | 10X12.5 | |
| 3300 | 1650 | 0.08 | 14 | 4900 | 10X12.5 | |
| 3500 | 1750 | 0.10 | 14 | 4900 | 10X12.5 | |
| 4 | 220 | 176 | 0.08 | 16 | 2690 | 5X8 / 6.3X7 |
| | 270 | 216 | 0.08 | 16 | 2690 | 5X8 / 6.3X7 |
| | 330 | 264 | 0.08 | 16 | 2690 | 5X8 / 6.3X7 |
| | 390 | 312 | 0.08 | 16 | 2690 | 5X8 / 6.3X7 |
| | 470 | 376 | 0.08 | 16 | 2690 | 6.3X7 |
| | 560 | 448 | 0.08 | 16 | 4100 | 6.3X8 |
| | | | | 14 | 4500 | 8X8 / 8X11.5 |
| | 680 | 176 | 0.08 | 14 | 4500 | 8X8 / 8X11.5 |
| | 820 | 656 | 0.08 | 14 | 4500 | 8X8 / 8X11.5 |
| | | | | | 4900 | 10X12.5 |
| | 1000 | 800 | 0.10 | 14 | 4500 / 4900 | 8X11.5 / 10X12.5 |
| | 1200 | 960 | 0.10 | 14 | 4500 / 4900 | 8X11.5 / 10X12.5 |
| | 1500 | 1200 | 0.10 | 14 | 4500 / 4900 | 8X11.5 / 10X12.5 |
| | 2000 | 1600 | 0.10 | 14 | 4900 | 10X12.5 |
| | 2500 | 2000 | 0.10 | 14 | 4900 | 10X12.5 |
| 2700 | 2160 | 0.10 | 14 | 4900 | 10X12.5 | |

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| w.v (V) | Capacitance (μ F) | LC. (μ A,2min) | tg δ (120Hz,20 $^{\circ}$ C) | ESR (m Ω ,100KHz) | Maximum Permissible Current(mA,rms) | Size Φ D \times L(mm) |
|------------|---------------------------|------------------------|--|-----------------------------|--|---------------------------------|
| 6.3 | 180 | 227 | 0.08 | 21 | 2690 | 5X8 / 6.3X7 |
| | | | | | 4500 | 8X8 / 8X11.5 |
| | 220 | 227 | 0.08 | 21 | 2690 | 5X8 / 6.3X7 |
| | | | | | 4500 | 8X8 / 8X11.5 |
| | 270 | 340 | 0.08 | 21 | 2690 | 5X8 / 6.3X7 |
| | | | | | 4100 | 6.3X8 |
| | | | | | 4500 | 8X8 / 8X11.5 |
| | 330 | 416 | 0.08 | 16 | 2690 | 5X8 / 6.3X7 |
| | | | | 14 | 4100 | 6.3X8 |
| | | | | | 4500 | 8X8 / 8X11.5 |
| | 390 | 491 | 0.08 | 16 | 2690 | 6.3X7 |
| | | | | 14 | 4100 | 6.3X8 |
| | | | | | 4500 | 8X8 / 8X11.5 |
| | 470 | 592 | 0.08 | 16 | 4100 | 6.3X8 |
| | | | | 14 | 4500 | 8X8 / 8X11.5 |
| | 560 | 706 | 0.08 | 14 | 4100 | 6.3X8 |
| | | | | | 4500 | 8X8 / 8X11.5 |
| | 680 | 857 | 0.08 | 14 | 4500 | 6.3X8 |
| | | | | | 4500 / 4900 | 8X11.5 / 10X12.5 |
| | 820 | 1033 | 0.10 | 16 | 4500 | 6.3X11 |
| 14 | | | | 4500 | 8X8 / 8X11.5 | |
| | | | | 4900 | 10X12.5 | |
| 1000 | 1260 | 0.10 | 14 | 4500 | 8X8 / 8X11.5 | |
| | | | | 4900 | 10X12.5 | |
| 1200 | 1512 | 0.10 | 14 | 4500 / 4900 | 8X11.5 / 10X12.5 | |
| 1500 | 1890 | 0.10 | 14 | 4500 / 4900 | 8X11.5 / 10X12.5 | |
| 2000 | 2520 | 0.10 | 14 | 4900 | 10X12.5 | |

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| w.v (V) | Capacitance (μ F) | LC. (μ A,2min) | tg δ (120Hz,20 $^{\circ}$ C) | ESR (m Ω ,100KHz) | Maximum Permissible Current(mA,rms) | Size Φ D \times L(mm) |
|------------|---------------------------|------------------------|--|-----------------------------|--|---------------------------------|
| 6.3 | 180 | 227 | 0.08 | 21 | 2690 | 5X8 / 6.3X7 |
| | | | | | 4500 | 8X8 / 8X11.5 |
| | 220 | 227 | 0.08 | 21 | 2690 | 5X8 / 6.3X7 |
| | | | | | 4500 | 8X8 / 8X11.5 |
| | 270 | 340 | 0.08 | 21 | 2690 | 5X8 / 6.3X7 |
| | | | | | 4100 | 6.3X8 |
| | | | | | 4500 | 8X8 / 8X11.5 |
| | 330 | 416 | 0.08 | 16 | 2690 | 5X8 / 6.3X7 |
| | | | | | 4100 | 6.3X8 |
| | | | | | 4500 | 8X8 / 8X11.5 |
| | 390 | 491 | 0.08 | 16 | 2690 | 6.3X7 |
| | | | | 14 | 4100 | 6.3X8 |
| | | | | | 4500 | 8X8 / 8X11.5 |
| | 470 | 592 | 0.08 | 16 | 4100 | 6.3X8 |
| | | | | 14 | 4500 | 8X8 / 8X11.5 |
| | 560 | 706 | 0.08 | 16 | 4100 | 6.3X8 |
| | | | | 14 | 4500 | 8X8 / 8X11.5 |
| | 680 | 857 | 0.08 | 14 | 4500 | 6.3X8 |
| | | | | | 4500 / 4900 | 8X11.5 / 10X12.5 |
| | 820 | 1033 | 0.10 | 16 | 4500 | 6.3X11 |
| 14 | | | | 4500 | 8X8 / 8X11.5 | |
| | | | | 4900 | 10X12.5 | |
| 1000 | 1260 | 0.10 | 14 | 4500 | 8X8 / 8X11.5 | |
| | | | | 4900 | 10X12.5 | |
| 1200 | 1512 | 0.10 | 14 | 4500 / 4900 | 8X11.5 / 10X12.5 | |
| 1500 | 1890 | 0.10 | 14 | 4500 / 4900 | 8X11.5 / 10X12.5 | |
| 2000 | 2520 | 0.10 | 14 | 4900 | 10X12.5 | |

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■ 尺寸及特性 Dimensions & Characteristics

| w.v (V) | Capacitance (μ F) | LC. (μ A,2min) | tg δ (120Hz,20 $^{\circ}$ C) | ESR (m Ω ,100KHz) | Maximum Permissible Current(mA,rms) | Size Φ DXL(mm) |
|------------|---------------------------|------------------------|--|-----------------------------|--|------------------------|
| 16 | 47 | 150 | 0.10 | 25 | 2690 | 6.3X7 |
| | | | | 18 | 2900 | 6.3X8 |
| | 68 | 218 | 0.10 | 20 | 2690 | 5X8 / 6.3X7 |
| | | | | 18 | 2900 | 6.3X8 |
| | 82 | 262 | 0.10 | 20 | 2690 | 5X8 / 6.3X7 |
| | | | | 18 | 2900 | 6.3X8 |
| | 100 | 320 | 0.10 | 20 | 2690 | 5X8 / 6.3X7 |
| | | | | 18 | 2900 | 6.3X8 |
| | | | | 15 | 3500 | 6.3X1.1 |
| | | | | 13 | 4500 | 8X11.5 |
| | 150 | 480 | 0.10 | 20 | 2690 | 6.3X7 |
| | | | | 18 | 2900 | 6.3X8 |
| | | | | 15 | 3500 | 6.3X11 |
| | | | | 13 | 4100 | 8X8 |
| | 180 | 576 | 0.10 | 18 | 2900 | 6.3X8 |
| | | | | 15 | 3500 | 6.3X11 |
| | | | | 13 | 4100/4500 | 8X8 / 8X11.5 |
| | 220 | 704 | 0.12 | 15 | 3500 | 6.3X11 |
| | | | | 13 | 4100/4500 | 8X8 / 8X11.5 |
| | 270 | 864 | 0.12 | 15 | 3500 | 6.3X11 |
| 13 | | | | 4100/4500 | 8X8 / 8X11.5 | |
| 13 | | | | 4900 | 10X12.5 | |
| 330 | 1056 | 0.12 | 13 | 4100 / 4500 | 8X8 / 10X11.5 | |
| | | | 12 | 4900 | 10X12.5 | |
| 390 | 1248 | 0.12 | 12 | 4500 / 4900 | 8X11.5 / 10X12.5 | |
| 470 | 1504 | 0.12 | 12 | 4500 / 4900 | 8X11.5 / 10X12.5 | |
| 560 | 1792 | 0.12 | 12 | 4900 | 10X12.5 | |
| 680 | 2176 | 0.12 | 12 | 4900 | 10X12.5 | |
| - | 820 | 2624 | 0.12 | 12 | 4900 | 10X12.5 |

HS Series

■ 尺寸及特性 Dimensions & Characteristics

| w.v (V) | Capacitance (μ F) | LC. (μ A,2min) | tg δ (120Hz,20 $^{\circ}$ C) | ESR (m Ω ,100KHz) | Maximum Permissible Current(mA,rms) | Size Φ DXL(mm) |
|-------------|---------------------------|------------------------|--|-----------------------------|--|------------------------|
| 20 | 22 | 88 | 0.10 | 25 | 1950 | 6.3X7 |
| | 33 | 132 | 0.10 | 25 | 1950 | 5X8 / 6.3X7 |
| | | | | | 2100 | 6.3X8 |
| | 39 | 156 | 0.10 | 25 | 1950 | 5X8 / 6.3X7 |
| | | | | | 2100 | 6.3X8 |
| | | | | | 3500 / 4100 | 8X8 / 8X11.5 |
| | 47 | 188 | 0.10 | 25 | 1950 | 5X8 / 6.3X7 |
| | | | | 20 | 2100 | 6.3X8 |
| | 68 | 272 | 0.10 | 20 | 3500 / 4100 | 8X8 / 8X11.5 |
| | | | | 18 | 2900 | 6.3X11 |
| | 82 | 328 | 0.12 | 20 | 3500 / 4100 | 8X8 / 8X11.5 |
| | | | | 18 | 2900 | 6.3X11 |
| | 100 | 400 | 0.12 | 20 | 4900 | 10X12.5 |
| | | | | 18 | 3500 / 4100 | 8X8 / 8X11.5 |
| | | | | 18 | 4100 | 8X8 |
| 150 | 600 | 0.12 | 18 | 3500 | 8X8 | |
| | | | 15 | 4100 | 8X11.5 | |
| 180 | 720 | 0.12 | 15 | 4100 / 4900 | 8X11.5 / 10X12.5 | |
| 220 | 880 | 0.12 | 15 | 4100 / 4900 | 8X11.5 / 10X12.5 | |
| 270 | 1080 | 0.12 | 15 | 4900 | 10X12.5 | |
| 330 | 1320 | 0.12 | 15 | 4900 | 10X12.5 | |
| 25 | 10 | 50 | 0.12 | 25 | 1950 / 2100 | 6.3X7 / 6.3X8 |
| | 15 | 75 | 0.12 | 25 | 1950 | 6.3X7 |
| | 22 | 110 | 0.12 | 25 | 1950 | 5X8 / 6.3X7 |
| | | | | | 2100 | 6.3X8 |
| | 33 | 165 | 0.12 | 25 | 1950 | 5X8 / 6.3X7 |
| | | | | | 2100 | 6.3X8 |
| | 39 | 195 | 0.12 | 25 | 1950 / 2100 | 6.3X7 / 6.3X8 |
| | | | | | 3500 / 4100 | 8X8 / 8X11.5 |
| | 47 | 235 | 0.12 | 20 | 2100 | 6.3X8 |
| | | | | | 3500 / 4100 | 8X8 / 8X11.5 |
| | 68 | 340 | 0.12 | 20 | 2900 | 6.3X11 |
| | | | | | 3500 / 4100 | 8X8 / 8X11.5 |
| | 82 | 410 | 0.12 | 20 | 2900 | 6.3X11 |
| | | | | | 3500 / 4100 | 8X8 / 8X11.5 |
| | 100 | 500 | 0.12 | 20 | 2900 / 3500 | 6.3X11 / 8X8 |
| 4100 / 4900 | | | | | 8X11.5 / 10X12.5 | |
| 150 | 750 | 0.12 | 15 | 4100 / 4900 | 8X11.5 / 10X12.5 | |
| 180 | 900 | 0.12 | 15 | 4900 | 10X12.5 | |
| 220 | 1100 | 0.12 | 15 | 4900 | 10X12.5 | |
| 270 | 1350 | 0.12 | 15 | 4900 | 10X12.5 | |
| 330 | 1650 | 0.12 | 15 | 4900 | 10X12.5 | |

物料编码表

1.物料编码 PART No. SYSTEM



1.1 系列编码 Series Code

| | |
|------------------|----|
| 编码 Code | HS |
| 系列编码 Series Code | HS |

1.2 电压编码 Voltage Code

| | | | | | | | | | |
|-----------------------|-----|----|-----|-----|----|----|----|----|----|
| 编码 Code | 0E | 0G | 0J | 0Q | 1A | 1C | 1E | 1V | 1H |
| 电压编码 VoltageCode(W.V) | 2.5 | 4 | 6.3 | 7.5 | 10 | 16 | 25 | 35 | 50 |

1.3 电容公差 Capacitance tolerance

“M”代表-20%~+20% “M” stands for -20%~+20%

1.4 电容量编码 Capacitance Code

| | | | | | | | | | |
|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 编码 Code | 476 | 107 | 277 | 337 | 477 | 567 | 687 | 827 | 108 |
| 电容量 Capacitance (uF) | 47 | 100 | 270 | 330 | 470 | 560 | 680 | 820 | 1000 |

1.5 尺寸编码 Size Code

| | | | | | | | | | |
|-----------|------|------|------|------|------|------|------|------|------|
| 编码 Code | 0508 | 0509 | 0608 | 0609 | 0611 | 0809 | 0811 | 1010 | 1012 |
| 直径 D (Φ) | 5 | 5 | 6.3 | 6.3 | 6.3 | 8 | 8 | 10 | 10 |
| 高度 H (mm) | 8 | 9 | 8 | 9 | 11.5 | 9 | 11.5 | 10 | 12.5 |

1.6 成型方式编码 Terminal Code

| | | | | |
|-------------|-------------------------------------|---|--|---------------------------------------|
| 编码 Code | PC | PJ | PB | PZ |
| 其他 Other | 平豆散装 Platform rubber& In bulk | 平豆剪脚 Platform rubber &Lead Cut3.5±0.3mm | 平豆编带 Platform rubber& Taping Pitch=2.5mm | 座板 Right lying Bending2.0±0.5mm |