

铁硅铝粉心

| 规格 | AL ± 12% (nH/N ²) | 标准尺寸 (mm) | | | 涂层后尺寸 (mm) | | | Le (cm) | Ae (cm ²) | Ve (cm ³) |
|-----------|----------------------------------|-----------|------|------|------------|---------|---------|------------|--------------------------|--------------------------|
| | | D | d | H | D(Max.) | d(Min.) | H(Max.) | | | |
| A60-096 | 25 | 9.65 | 4.78 | 3.18 | 10.3 | 4.27 | 3.81 | 2.18 | 0.075 | 0.164 |
| A75-096 | 32 | | | | | | | | | |
| A90-096 | 38 | | | | | | | | | |
| A125-096 | 53 | | | | | | | | | |
| A60-096A | 32 | 9.65 | 4.78 | 3.96 | 10.3 | 4.27 | 4.60 | 2.18 | 0.095 | 0.206 |
| A75-096A | 40 | | | | | | | | | |
| A90-096A | 48 | | | | | | | | | |
| A125-096A | 66 | | | | | | | | | |
| A60-102 | 32 | 10.2 | 5.08 | 3.96 | 10.8 | 4.57 | 4.60 | 2.38 | 0.100 | 0.238 |
| A75-102 | 40 | | | | | | | | | |
| A90-102 | 48 | | | | | | | | | |
| A125-102 | 66 | | | | | | | | | |
| A60-112 | 26 | 11.2 | 6.35 | 3.96 | 11.9 | 5.84 | 4.72 | 2.69 | 0.091 | 0.244 |
| A75-112 | 32 | | | | | | | | | |
| A90-112 | 38 | | | | | | | | | |
| A125-112 | 53 | | | | | | | | | |
| A60-127 | 27 | 12.7 | 7.62 | 4.75 | 13.5 | 6.99 | 5.51 | 3.12 | 0.114 | 0.356 |
| A75-127 | 34 | | | | | | | | | |
| A90-127 | 40 | | | | | | | | | |
| A125-127 | 56 | | | | | | | | | |
| A60-130 | 35 | 13.0 | 8.00 | 6.40 | 13.8 | 7.40 | 7.20 | 3.23 | 0.154 | 0.496 |
| A75-130 | 44 | | | | | | | | | |
| A90-130 | 53 | | | | | | | | | |
| A125-130 | 73 | | | | | | | | | |

金属磁粉心

| 规格 | A _L ± 8% (nH/N ²) | 标准尺寸 (mm) | | | 涂层后尺寸 (mm) | | | Le (cm) | Ae (cm ²) | Ve (cm ³) |
|-----------|---|-----------|------|------|------------|---------|---------|------------|--------------------------|--------------------------|
| | | D | d | H | D(Max.) | d(Min.) | H(Max.) | | | |
| A60-165 | 35 | 16.5 | 10.2 | 6.35 | 17.4 | 9.53 | 7.11 | 4.11 | 0.192 | 0.789 |
| A75-165 | 43 | | | | | | | | | |
| A90-165 | 52 | | | | | | | | | |
| A125-165 | 72 | | | | | | | | | |
| A60-173 | 43 | 17.3 | 9.65 | 6.35 | 18.1 | 9.02 | 7.15 | 4.14 | 0.232 | 0.960 |
| A75-173 | 53 | | | | | | | | | |
| A90-173 | 64 | | | | | | | | | |
| A125-173 | 89 | | | | | | | | | |
| A60-202 | 32 | 20.3 | 12.7 | 6.35 | 21.1 | 12.1 | 7.15 | 5.09 | 0.226 | 1.15 |
| A75-202 | 41 | | | | | | | | | |
| A90-202 | 49 | | | | | | | | | |
| A125-202 | 68 | | | | | | | | | |
| A60-229 | 43 | 22.9 | 14.0 | 7.62 | 23.7 | 13.4 | 8.42 | 5.67 | 0.331 | 1.88 |
| A75-229 | 54 | | | | | | | | | |
| A90-229 | 65 | | | | | | | | | |
| A125-229 | 90 | | | | | | | | | |
| A60-229A | 53 | 22.9 | 14.0 | 9.53 | 23.7 | 13.4 | 10.3 | 5.67 | 0.413 | 2.35 |
| A75-229A | 67 | | | | | | | | | |
| A90-229A | 81 | | | | | | | | | |
| A125-229A | 112 | | | | | | | | | |
| A60-236 | 51 | 23.6 | 14.4 | 8.89 | 24.3 | 13.8 | 9.65 | 5.88 | 0.388 | 2.28 |
| A75-236 | 63 | | | | | | | | | |
| A90-236 | 76 | | | | | | | | | |
| A125-236 | 105 | | | | | | | | | |
| A60-269 | 75 | 26.9 | 14.7 | 11.2 | 27.7 | 14.1 | 12.0 | 6.35 | 0.654 | 4.15 |
| A75-269 | 94 | | | | | | | | | |
| A90-269 | 113 | | | | | | | | | |
| A125-269 | 157 | | | | | | | | | |
| A60-330 | 61 | 33.0 | 19.9 | 10.7 | 33.8 | 19.3 | 11.5 | 8.15 | 0.672 | 5.48 |
| A75-330 | 76 | | | | | | | | | |
| A90-330 | 91 | | | | | | | | | |
| A125-330 | 127 | | | | | | | | | |
| A60-360 | 56 | 35.8 | 22.4 | 10.5 | 36.7 | 21.5 | 11.3 | 8.98 | 0.678 | 6.09 |
| A75-360 | 70 | | | | | | | | | |
| A90-360 | 84 | | | | | | | | | |
| A125-360 | 117 | | | | | | | | | |

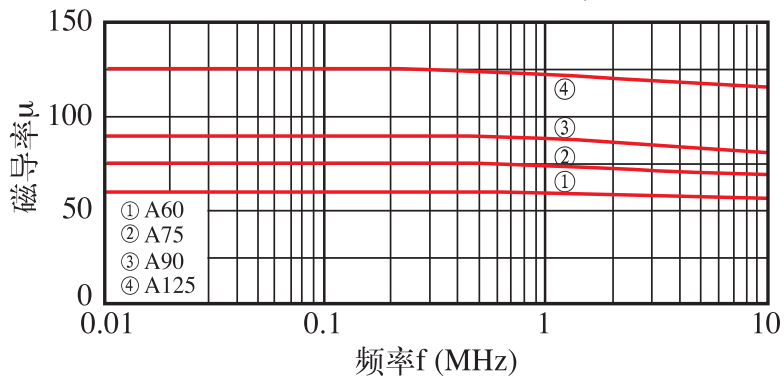
铁硅铝粉心

METAL MAGNETIC POWDER CORE

铁硅铝粉心

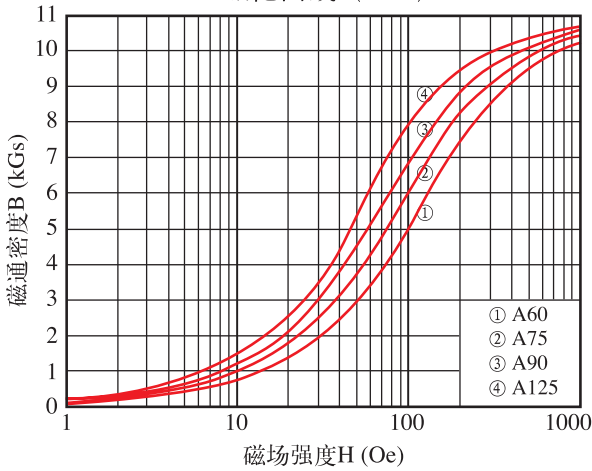
| 规格 | $A_L \pm 8\%$ (nH/N ²) | 标准尺寸 (mm) | | | 涂层后尺寸 (mm) | | | Le (cm) | Ae (cm ²) | Ve (cm ³) |
|-----------|---------------------------------------|-----------|------|------|------------|---------|---------|------------|--------------------------|--------------------------|
| | | D | d | H | D(Max.) | d(Min.) | H(Max.) | | | |
| A60-399 | 81 | 39.9 | 24.1 | 14.5 | 40.8 | 23.3 | 15.4 | 9.84 | 1.07 | 10.5 |
| A75-399 | 101 | | | | | | | | | |
| A90-399 | 121 | | | | | | | | | |
| A125-399 | 168 | | | | | | | | | |
| A60-467 | 135 | 46.7 | 24.1 | 18.0 | 47.6 | 23.3 | 18.9 | 10.7 | 1.99 | 21.3 |
| A75-467 | 169 | | | | | | | | | |
| A90-467 | 202 | | | | | | | | | |
| A125-467 | 281 | | | | | | | | | |
| A60-508 | 73 | 50.8 | 31.8 | 13.5 | 51.7 | 30.9 | 14.4 | 12.7 | 1.25 | 15.9 |
| A75-508 | 91 | | | | | | | | | |
| A90-508 | 109 | | | | | | | | | |
| A125-508 | 152 | | | | | | | | | |
| A60-572 | 75 | 57.2 | 35.6 | 14.0 | 58.1 | 34.7 | 14.9 | 14.3 | 1.44 | 20.7 |
| A75-572 | 94 | | | | | | | | | |
| A90-572 | 112 | | | | | | | | | |
| A125-572 | 156 | | | | | | | | | |
| A60-572A | 140 | 57.2 | 35.6 | 28.0 | 58.1 | 34.7 | 28.9 | 14.3 | 2.89 | 41.3 |
| A75-572A | 175 | | | | | | | | | |
| A90-572A | 210 | | | | | | | | | |
| A125-572A | 300 | | | | | | | | | |
| A60-778 | 68 | 77.8 | 49.2 | 12.7 | 79.0 | 48.0 | 14.0 | 20.0 | 1.77 | 34.7 |
| A75-778 | 85 | | | | | | | | | |
| A90-778 | 102 | | | | | | | | | |
| A125-778 | 142 | | | | | | | | | |
| A60-778A | 136 | 77.8 | 49.2 | 25.4 | 79.0 | 48.0 | 26.6 | 20.0 | 3.55 | 69.5 |
| A125-778A | 284 | | | | | | | | | |

磁导率—频率曲线 (μ -f)

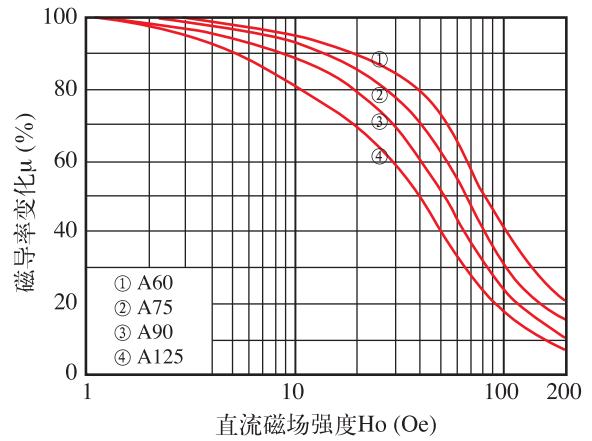


铁硅铝粉心

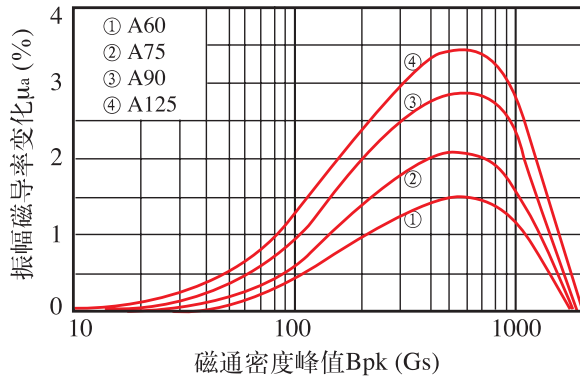
磁化曲线 (B-H)



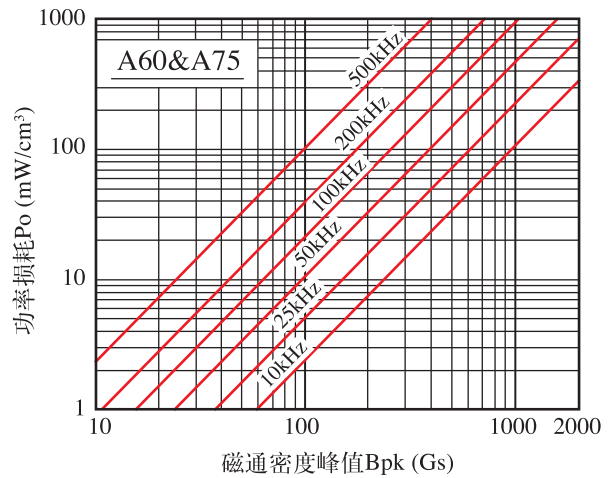
磁导率—直流偏磁曲线 (μ - H_0)



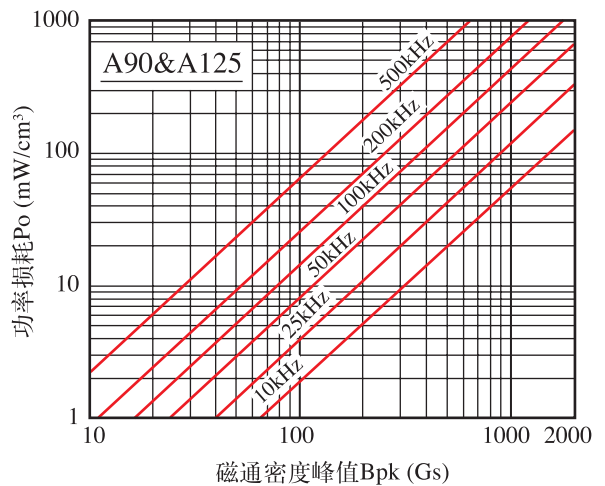
振幅磁导率—磁通密度峰值曲线 (μ_a - B_{pk})



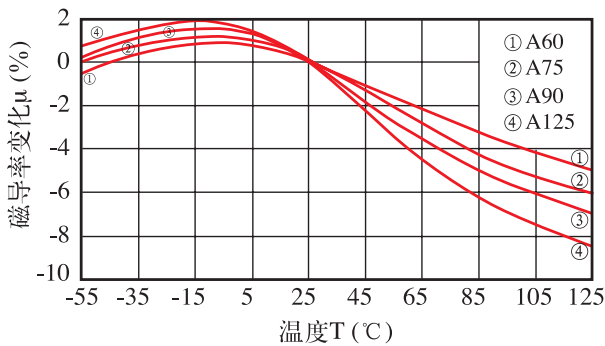
功率损耗曲线 (P_o - f & B_{pk})



功率损耗曲线 (P_o - f & B_{pk})



磁导率—温度曲线 (μ - T)

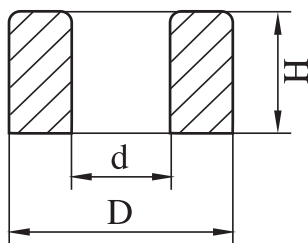


其它规格铁镍钼粉心

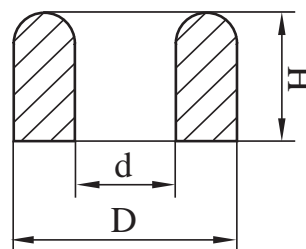
详细规范 Q/RB 20205-2003

| 材料 | 磁导率 | 品质因数 Q | 温度系数 (ppm/°C) (-55°C ~ +125°C) | 饱和磁通密度 (T) | 密度 (g/cm ³) | 涂覆 |
|-----|-----------|--------------|-----------------------------------|---------------|----------------------------|----|
| 铁镍钼 | 160 ± 10% | ≥ 8 (300kHz) | ≤ 450 | 0.8 | 7.6 | 清漆 |

RB7.076.059 系列形状



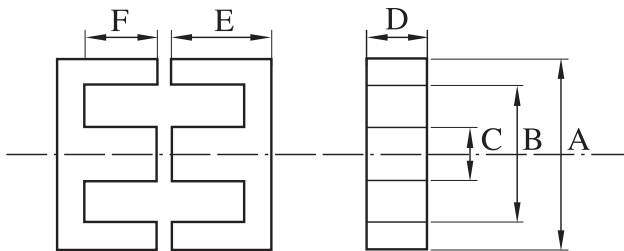
RB7.076.067 系列形状



| 序号 | 型号 (括号内为原型号, 仍有效) | $A_L \pm 10\%$ (nH/N ²) | D (mm) | d (mm) | H (mm) | Le (cm) | Ae (cm ²) | Ve (cm ³) |
|----|---|--|-----------|-----------|-----------|------------|--------------------------|--------------------------|
| 1 | FeNiMo/160 H13 × 8 × 4.8 (RB7.076.059/01) | 72 | 13.0 | 8.0 | 4.8 | 3.30 | 0.118 | 0.389 |
| 2 | FeNiMo/160 H13 × 8 × 6.5 (RB7.076.059/02) | 98 | 13.0 | 8.0 | 6.5 | 3.30 | 0.161 | 0.531 |
| 3 | FeNiMo/160 H15 × 7 × 4.8 (RB7.076.059/03a) | 111 | 15.0 | 7.0 | 4.8 | 3.45 | 0.190 | 0.656 |
| 4 | FeNiMo/160 H15 × 9 × 4.8 (RB7.076.059/03b) | 76 | 15.0 | 9.0 | 4.8 | 3.77 | 0.142 | 0.535 |
| 5 | FeNiMo/160 H19 × 13 × 4.8 (RB7.076.059/04) | 56 | 19.0 | 13.0 | 4.8 | 5.02 | 0.140 | 0.703 |
| 6 | FeNiMo/160 H19 × 13 × 6.7 (RB7.076.059/05) | 79 | 19.0 | 13.0 | 6.7 | 5.02 | 0.197 | 0.989 |
| 7 | FeNiMo/160 H22 × 14 × 7.0 (RB7.076.059/06) | 98 | 22.0 | 14.0 | 7.0 | 5.65 | 0.275 | 1.55 |
| 8 | FeNiMo/160 H24 × 13 × 5.2 (RB7.076.067/01) | 88 | 24.0 | 13.0 | 5.2 | 5.81 | 0.253 | 1.47 |
| 9 | FeNiMo/160 H24 × 13 × 7.0 (RB7.076.067/02) | 122 | 24.0 | 13.0 | 7.0 | 5.81 | 0.352 | 2.05 |
| 10 | FeNiMo/160 H25 × 14 × 7.0 (RB7.076.067/03) | 116 | 25.0 | 14.0 | 7.0 | 6.12 | 0.352 | 2.15 |
| 11 | FeNiMo/160 H36 × 25 × 7.5 (RB7.076.067/04) | 80 | 36.0 | 25.0 | 7.5 | 9.58 | 0.380 | 3.64 |
| 12 | FeNiMo/160 H36 × 25 × 9.7 (RB7.076.067/05) | 105 | 36.0 | 25.0 | 9.7 | 9.58 | 0.501 | 4.80 |

| 序号 | 型号 (括号内为原型号, 仍有效) | $A_L \pm 10\%$ (nH/N ²) | D (mm) | d (mm) | H (mm) | Le (cm) | Ae (cm ²) | Ve (cm ³) |
|----|--|--|-----------|-----------|-----------|------------|--------------------------|--------------------------|
| 13 | FeNiMo/160 H44 × 28 × 7.2 (RB7.076.067/06) | 90 | 44.0 | 28.0 | 7.2 | 11.3 | 0.507 | 5.73 |
| 14 | FeNiMo/160 H44 × 28 × 10.3 (RB7.076.067/07) | 134 | 44.0 | 28.0 | 10.3 | 11.3 | 0.755 | 8.53 |
| 15 | FeNiMo/160 H64 × 40 × 12.0 (RB7.076.067/08) | 158 | 64.0 | 40.0 | 12.0 | 16.3 | 1.28 | 21.0 |
| 16 | FeNiMo/160 H52 × 32 × 10.5 (RB7.076.067/09) | 144 | 52.0 | 32.0 | 10.5 | 13.2 | 0.943 | 12.4 |
| 17 | FeNiMo/160 H31 × 20 × 7.2 (RB7.076.067/10) | 91 | 31.0 | 20.0 | 7.2 | 8.01 | 0.363 | 2.91 |

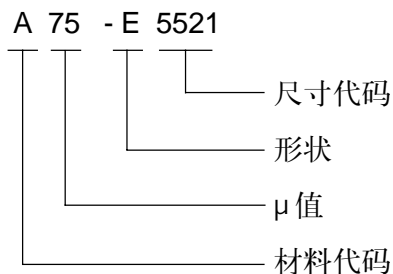
EE 型铁硅铝粉心



EE 型铁硅铝磁芯非常适宜于制造高频有源 PFC 电感、开关电源输出扼流圈、谐振电感及单端反激变压器等功率电感器件。由于 EE 型铁硅铝磁芯结构合理紧凑，窗口利用率高，与环型铁硅铝磁芯相比制造的感性器件可以实现更高的功率转换密度，同时可以提高绕线效率，更方便用户安装；与 EE 型铁粉心相比，铁硅铝磁芯具有较低的损耗和很好的热稳定性，同时有效解决了铁粉心因磁滞伸缩带来的噪声问题。

EE 型铁硅铝磁芯材料有四种磁导率：40 μ ，60 μ ，75 μ ，90 μ 。

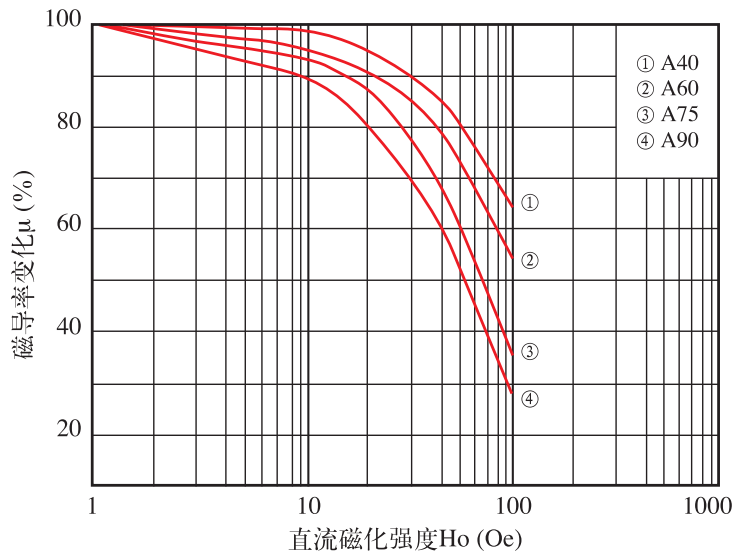
命名方式



EE 型铁硅铝粉心

| 产品规格 | A _L ± 12% (nH/N ²) | 产品尺寸 (mm) | | | | | | A _e (cm ²) | L _e (cm) | V _e (cm ³) |
|-----------|--|------------|---------|------------|------------|------------|---------|--------------------------------------|------------------------|--------------------------------------|
| | | A | B(Min.) | C | D | E | F(Min.) | | | |
| A40-E1905 | 35 | 19.3 ± 0.3 | 13.9 | 4.78 ± 0.2 | 4.78 ± 0.2 | 8.10 ± 0.2 | 5.54 | 0.233 | 3.92 | 0.914 |
| A60-E1905 | 48 | | | | | | | | | |
| A75-E1905 | 58 | | | | | | | | | |
| A90-E1905 | 69 | | | | | | | | | |
| A40-E2506 | 52 | 25.4 ± 0.3 | 18.8 | 6.22 ± 0.2 | 6.53 ± 0.2 | 9.53 ± 0.2 | 6.22 | 0.445 | 4.79 | 2.13 |
| A60-E2506 | 70 | | | | | | | | | |
| A75-E2506 | 85 | | | | | | | | | |
| A90-E2506 | 100 | | | | | | | | | |
| A40-E4211 | 76 | 42.8 ± 0.7 | 30.4 | 11.9 ± 0.3 | 10.8 ± 0.3 | 21.1 ± 0.2 | 15.0 | 1.28 | 9.84 | 12.6 |
| A60-E4211 | 105 | | | | | | | | | |
| A75-E4211 | 131 | | | | | | | | | |
| A90-E4211 | 151 | | | | | | | | | |
| A40-E4215 | 108 | 42.8 ± 0.7 | 30.4 | 11.9 ± 0.3 | 15.4 ± 0.3 | 21.1 ± 0.2 | 15.0 | 1.83 | 9.84 | 18.0 |
| A60-E4215 | 150 | | | | | | | | | |
| A75-E4215 | 195 | | | | | | | | | |
| A90-E4215 | 217 | | | | | | | | | |
| A40-E4220 | 140 | 42.8 ± 0.7 | 30.4 | 11.9 ± 0.3 | 20.0 ± 0.3 | 21.1 ± 0.2 | 15.0 | 2.37 | 9.84 | 23.3 |
| A60-E4220 | 194 | | | | | | | | | |
| A75-E4220 | 252 | | | | | | | | | |
| A90-E4220 | 281 | | | | | | | | | |
| A40-E5517 | 118 | 54.9 ± 0.7 | 37.5 | 16.8 ± 0.4 | 16.8 ± 0.4 | 27.6 ± 0.4 | 18.5 | 2.85 | 12.3 | 35.1 |
| A60-E5517 | 178 | | | | | | | | | |
| A75-E5517 | 222 | | | | | | | | | |
| A90-E5517 | 267 | | | | | | | | | |
| A40-E5521 | 148 | 54.9 ± 0.7 | 37.5 | 16.8 ± 0.4 | 21.0 ± 0.4 | 27.6 ± 0.4 | 18.5 | 3.50 | 12.3 | 43.9 |
| A60-E5521 | 222 | | | | | | | | | |
| A75-E5521 | 278 | | | | | | | | | |
| A90-E5521 | 333 | | | | | | | | | |
| A40-E5525 | 187 | 54.9 ± 0.7 | 37.5 | 16.8 ± 0.4 | 24.6 ± 0.4 | 27.6 ± 0.4 | 18.5 | 4.17 | 12.3 | 51.4 |
| A60-E5525 | 261 | | | | | | | | | |
| A75-E5525 | 338 | | | | | | | | | |
| A90-E5525 | 406 | | | | | | | | | |

磁导率—直流偏磁曲线 (μ - H_0)



EE 型铁硅铝粉心

磁导率—温度曲线 (μ - T)

