

QR 系列 螺纹端子形高速充放电对应品



- 对应交流伺服马达、通用变频器等高频度发生的再生电压
- 对在商用电源情况恶劣的地区的电压波动
- 用于电压波动较大的倍压整流电路的滤波
- RoHS指令(2002/95/EC)已对应完毕



高速充
放电对应

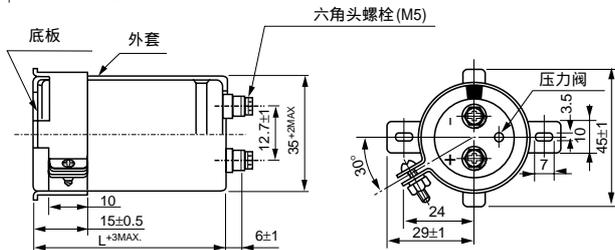
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■ 仕様

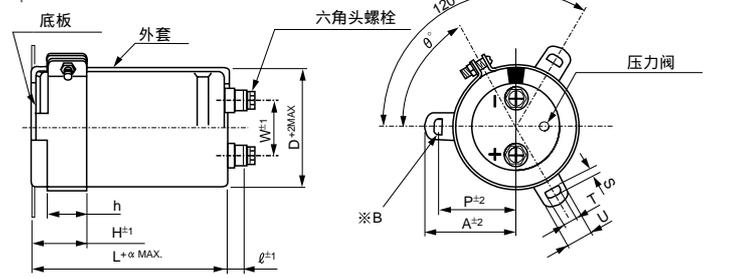
| 项目 | 性能 | | | | |
|--------------|---|-------------------|--------------|------|---------------------|
| 分类温度范围 | -25 ~ +85°C | | | | |
| 额定电压范围 | 350 ~ 450V | | | | |
| 额定静电容量范围 | 680 ~ 15000μF | | | | |
| 额定静电容量容许差 | ±20% 120Hz, 20°C | | | | |
| 漏损电流 | 3√CV (μA) 或 5mA 中的较小值以下 (20 5分值) [C: 额定静电容量(μF), V: 额定电压(V)] | | | | |
| 损失角正切值 tan δ | 额定电压(V) | 350 | 400 | 450 | 频率: 120Hz, 温度: 20°C |
| | tan δ (MAX.) | 0.15 | 0.15 | 0.15 | |
| 温度特性 | 额定电压(V) | 350 ~ 450 | | | 频率: 120Hz |
| | 电阻率 ZT/Z20(MAX.) | Z - 25°C / Z+20°C | | | |
| 充放电耐久性 | 充放电电压差 (V) = 额定电压 × 0.3、在周期3Hz 时进行2000 万次充放电后, 应满足右边项目 | 静电容量变化率 | 初始值 ±20%以内 | | |
| | | tan δ | 初始标准的300% 以下 | | |
| 耐久性 | 在85 下, 在不超过额定电压的范围内重叠印加规定的 额定纹波电流 5000 小时后, 应满足右边项目 | 漏损电流 | 初始标准值以下 | | |
| | | 外观 | 应无显著异常 | | |
| 安全性 | 在85 下, 无负荷放置1000 小时后, 在20 °C下根据JIS C 5101-4 4.1项进行电压处理, 应满足上述项目 | | | | |
| 表示 | 在深褐色外套上标示白色 | | | | |

■ 尺寸图

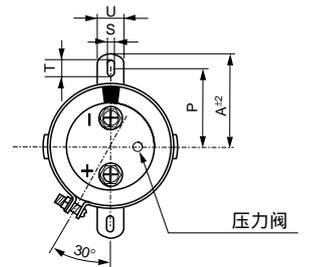
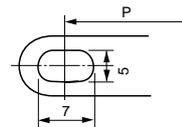
φ35螺纹端子形



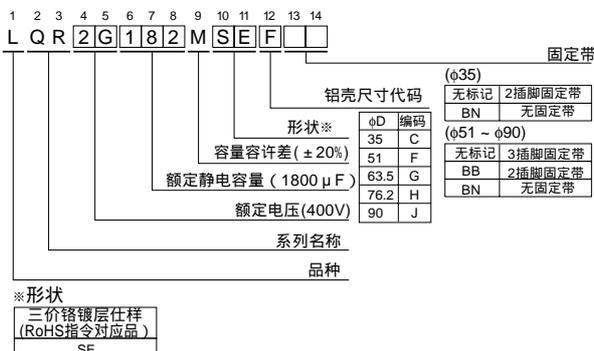
φ51以上螺纹端子形



90 用 3 插脚固定带 B 孔形状如下图所示。



品号编码体系 (例: 400V 1800 μF)



| φD | W | ℓ | α | 螺栓的公称直径 |
|------|------|---|---|---------|
| 51 | 22.0 | 6 | 3 | M5 |
| 63.5 | 28.6 | 6 | 3 | M5 |
| 76.2 | 31.8 | 6 | 3 | M5 |
| 90 | 31.8 | 6 | 3 | M5 |

● 固定带尺寸表

| 记号 | φD | 3 插脚 | | | | 2 插脚 | | | |
|----|------|------|------|------|------|------|------|------|----|
| | | 51 | 63.5 | 76.2 | 90 | 51 | 63.5 | 76.2 | 90 |
| P | 32.5 | 38.1 | 44.5 | 50.8 | 33.2 | 40.5 | 46.5 | 53 | |
| A | 38.5 | 43 | 49.2 | 58.5 | 40 | 46.5 | 53 | 59 | |
| T | 7.5 | 8.0 | 7.0 | 8.0 | 6.0 | 7.0 | 6.0 | 6.0 | |
| S | 5.0 | 5.0 | 5.0 | 5.0 | 4.5 | 4.5 | 4.5 | 4.5 | |
| U | 12 | 14 | 14 | 18 | 14 | 14 | 14 | 14 | |
| θ° | 60 | 60 | 60 | 60 | 30 | 30 | 30 | 30 | |
| H | 20 | 25 | 30 | 35 | 25 | 35 | 35 | 35 | |
| h | 15 | 20 | 24 | 25 | 15 | 20 | 20 | 20 | |

● 尺寸表见下页

■尺寸表

| 额定电压 (V) | 350V (2V) | | | | |
|-------------|---------------|-----------|-------|-----------|--------------|
| 浪涌 | 400V | | | | |
| 额定静电容量 (μF) | 尺寸 φD × L(mm) | 纹波 (Arms) | tan δ | 漏损电流 (mA) | 品号 |
| 820 | 35 × 80 | 3.3 | 0.15 | 1.60 | LQR2V821MSEC |
| 1000 | 35 × 100 | 4.3 | 0.15 | 1.77 | LQR2V102MSEC |
| 1800 | 51 × 80 | 7.2 | 0.15 | 2.38 | LQR2V182MSEF |
| 2200 | 51 × 100 | 9.1 | 0.15 | 2.63 | LQR2V222MSEF |
| 2700 | 51 × 110 | 10.8 | 0.15 | 2.91 | LQR2V272MSEF |
| | 63.5 × 80 | 10.6 | 0.15 | 2.91 | LQR2V272MSEG |
| 3300 | 51 × 130 | 12.4 | 0.15 | 3.22 | LQR2V332MSEF |
| | 63.5 × 90 | 11.9 | 0.15 | 3.22 | LQR2V332MSEG |
| 3900 | 63.5 × 110 | 14.6 | 0.15 | 3.50 | LQR2V392MSEG |
| | 76.2 × 80 | 14.1 | 0.15 | 3.50 | LQR2V392MSEH |
| 4700 | 51 × 170 | 17.0 | 0.15 | 3.84 | LQR2V472MSEF |
| | 76.2 × 90 | 16.4 | 0.15 | 3.84 | LQR2V472MSEH |
| 5600 | 63.5 × 150 | 20.4 | 0.15 | 4.20 | LQR2V562MSEG |
| | 76.2 × 110 | 19.7 | 0.15 | 4.20 | LQR2V562MSEH |
| 6800 | 63.5 × 170 | 23.5 | 0.15 | 4.62 | LQR2V682MSEG |
| | 76.2 × 130 | 22.9 | 0.15 | 4.62 | LQR2V682MSEH |
| | 90 × 100 | 22.5 | 0.15 | 4.62 | LQR2V682MSEJ |
| 8200 | 63.5 × 190 | 27.1 | 0.15 | 5.00 | LQR2V822MSEG |
| | 76.2 × 150 | 26.4 | 0.15 | 5.00 | LQR2V822MSEH |
| 10000 | 76.2 × 170 | 31.1 | 0.15 | 5.00 | LQR2V103MSEH |
| | 90 × 130 | 30.2 | 0.15 | 5.00 | LQR2V103MSEJ |
| 12000 | 76.2 × 190 | 35.7 | 0.15 | 5.00 | LQR2V123MSEH |
| 15000 | 90 × 190 | 40.5 | 0.15 | 5.00 | LQR2V153MSEJ |

| 额定电压 (V) | 400V (2G) | | | | |
|-------------|---------------|-----------|-------|-----------|--------------|
| 浪涌 | 450V | | | | |
| 额定静电容量 (μF) | 尺寸 φD × L(mm) | 纹波 (Arms) | tan δ | 漏损电流 (mA) | 品号 |
| 680 | 35 × 80 | 3.2 | 0.15 | 1.56 | LQR2G681MSEC |
| 820 | 35 × 100 | 4.1 | 0.15 | 1.71 | LQR2G821MSEC |
| 1500 | 51 × 80 | 7.5 | 0.15 | 2.32 | LQR2G152MSEF |
| 1800 | 51 × 90 | 9.1 | 0.15 | 2.54 | LQR2G182MSEF |
| 2200 | 51 × 110 | 10.4 | 0.15 | 2.81 | LQR2G222MSEF |
| 2700 | 63.5 × 90 | 11.5 | 0.15 | 3.11 | LQR2G272MSEG |
| 3300 | 51 × 150 | 13.7 | 0.15 | 3.44 | LQR2G332MSEF |
| | 63.5 × 110 | 13.2 | 0.15 | 3.44 | LQR2G332MSEG |
| 3900 | 63.5 × 130 | 16.0 | 0.15 | 3.74 | LQR2G392MSEG |
| | 76.2 × 90 | 15.3 | 0.15 | 3.74 | LQR2G392MSEH |
| 4700 | 63.5 × 150 | 18.7 | 0.15 | 4.11 | LQR2G472MSEG |
| | 76.2 × 110 | 18.3 | 0.15 | 4.11 | LQR2G472MSEH |
| 5600 | 63.5 × 170 | 22.0 | 0.15 | 4.48 | LQR2G562MSEG |
| | 76.2 × 130 | 21.4 | 0.15 | 4.48 | LQR2G562MSEH |
| 6800 | 76.2 × 150 | 25.4 | 0.15 | 4.94 | LQR2G682MSEH |
| 8200 | 76.2 × 170 | 28.6 | 0.15 | 5.00 | LQR2G822MSEH |
| | 90 × 130 | 27.8 | 0.15 | 5.00 | LQR2G822MSEJ |
| 10000 | 90 × 150 | 32.7 | 0.15 | 5.00 | LQR2G103MSEJ |
| 12000 | 90 × 170 | 37.6 | 0.15 | 5.00 | LQR2G123MSEJ |
| 15000 | 90 × 220 | 43.0 | 0.15 | 5.00 | LQR2G153MSEJ |

| 额定电压 (V) | 450V (2W) | | | | |
|-------------|---------------|-----------|-------|-----------|--------------|
| 浪涌 | 500V | | | | |
| 额定静电容量 (μF) | 尺寸 φD × L(mm) | 纹波 (Arms) | tan δ | 漏损电流 (mA) | 品号 |
| 680 | 35 × 100 | 3.5 | 0.15 | 1.65 | LQR2W681MSEC |
| 820 | 35 × 110 | 3.9 | 0.15 | 1.82 | LQR2W821MSEC |
| 1200 | 51 × 80 | 5.2 | 0.15 | 2.20 | LQR2W122MSEF |
| 1500 | 51 × 100 | 6.3 | 0.15 | 2.46 | LQR2W152MSEF |
| 1800 | 51 × 110 | 7.4 | 0.15 | 2.70 | LQR2W182MSEF |
| | 63.5 × 80 | 7.9 | 0.15 | 2.70 | LQR2W182MSEG |
| 2200 | 51 × 130 | 8.7 | 0.15 | 2.98 | LQR2W222MSEF |
| | 63.5 × 100 | 8.6 | 0.15 | 2.98 | LQR2W222MSEG |
| 2700 | 51 × 150 | 10.2 | 0.15 | 3.30 | LQR2W272MSEF |
| | 76.2 × 80 | 10.0 | 0.15 | 3.30 | LQR2W272MSEH |
| 3300 | 63.5 × 130 | 12.4 | 0.15 | 3.65 | LQR2W332MSEG |
| | 76.2 × 100 | 11.8 | 0.15 | 3.65 | LQR2W332MSEH |
| 3900 | 63.5 × 150 | 13.7 | 0.15 | 3.97 | LQR2W392MSEG |
| | 76.2 × 110 | 14.1 | 0.15 | 3.97 | LQR2W392MSEH |
| | 90 × 90 | 13.6 | 0.15 | 3.97 | LQR2W392MSEJ |
| 4700 | 63.5 × 170 | 16.5 | 0.15 | 4.36 | LQR2W472MSEG |
| | 76.2 × 130 | 16.3 | 0.15 | 4.36 | LQR2W472MSEH |
| | 90 × 110 | 15.8 | 0.15 | 4.36 | LQR2W472MSEJ |
| 5600 | 63.5 × 190 | 19.4 | 0.15 | 4.76 | LQR2W562MSEG |
| | 90 × 130 | 19.1 | 0.15 | 4.76 | LQR2W562MSEJ |
| 6800 | 76.2 × 170 | 23.3 | 0.15 | 5.00 | LQR2W682MSEH |
| 8200 | 90 × 150 | 26.1 | 0.15 | 5.00 | LQR2W822MSEJ |
| 10000 | 90 × 190 | 31.3 | 0.15 | 5.00 | LQR2W103MSEJ |
| 12000 | 90 × 220 | 35.5 | 0.15 | 5.00 | LQR2W123MSEJ |

85 120Hz 时的额定纹波电流(A rms)

● 额定纹波电流的频率修正系数

| 频率 (Hz) | 60 | 120 | 360 | 1k | 10k~ |
|---------|------|------|------|------|------|
| 系数 | 0.82 | 1.00 | 1.20 | 1.35 | 1.40 |