



## FEATURES:

- \* Quality/ reel: 1,500PCS
- \* Small product, rotundity 5.8mm type (6.1mm Maximum) Height 4.5mm TYP.
- \* Carrier tape packing, use for SMT
- \* Suitable for reflow soldering
- \* Widely used in DC-DC converter/ LCD TV/ Notebook/ PDA/ MP3 / MP4 Player/ Digital camera/ Portable CDR-W etc.

## Electrical Characteristics

### 电气特性

| Model No.<br>部品名 | Test Condition<br>测试条件 | Inductance<br>电感 | Tolerance<br>公差 (%) | DC Resutance<br>直流电阻 MAX(W) | Rate Current<br>额定电流(A) |
|------------------|------------------------|------------------|---------------------|-----------------------------|-------------------------|
| SD54-1R0MC       | 100KHz,0.3V            | 1                | ±20                 | 0.02                        | 5                       |
| SD54-1R5MC       | 100KHz,0.3V            | 1.5              | ±20                 | 0.025                       | 4.8                     |
| SD54-2R2MC       | 100KHz,0.3V            | 2.2              | ±20                 | 0.017                       | 4.5                     |
| SD54-2R7MC       | 100KHz,0.3V            | 2.7              | ±20                 | 0.03                        | 3.5                     |
| SD54-3R3MC       | 100KHz,0.3V            | 3.3              | ±20                 | 0.034                       | 3                       |
| SD54-4R7MC       | 100KHz,0.3V            | 4.7              | ±20                 | 0.04                        | 2.8                     |
| SD54-6R8MC       | 100KHz,0.3V            | 6.8              | ±20                 | 0.08                        | 2.5                     |
| SD54-100MC       | 1KHZ,0.3V              | 10               | ±20                 | 0.1                         | 1.44                    |
| SD54-120MC       | 1KHZ,0.3V              | 12               | ±20                 | 0.12                        | 1.4                     |
| SD54-150MC       | 1KHZ,0.3V              | 15               | ±20                 | 0.14                        | 1.3                     |
| SD54-180MC       | 1KHZ,0.3V              | 18               | ±20                 | 0.15                        | 1.23                    |
| SD54-220MC       | 1KHZ,0.3V              | 22               | ±20                 | 0.18                        | 1.11                    |
| SD54-270MC       | 1KHZ,0.3V              | 27               | ±20                 | 0.2                         | 0.97                    |
| SD54-220MC       | 1KHZ,0.3V              | 33               | ±20                 | 0.23                        | 0.88                    |
| SD54-390MC       | 1KHZ,0.3V              | 39               | ±20                 | 0.32                        | 0.8                     |
| SD54-470MC       | 1KHZ,0.3V              | 47               | ±20                 | 0.37                        | 0.72                    |
| SD54-560MC       | 1KHZ,0.3V              | 56               | ±20                 | 0.42                        | 0.68                    |
| SD54-680MC       | 1KHZ,0.3V              | 68               | ±20                 | 0.46                        | 0.61                    |
| SD54-820MC       | 1KHZ,0.3V              | 82               | ±20                 | 0.6                         | 0.58                    |
| SD54-101MC       | 1KHZ,0.3V              | 100              | ±20                 | 0.7                         | 0.52                    |
| SD54-121MC       | 1KHZ,0.3V              | 120              | ±20                 | 0.93                        | 0.48                    |
| SD54-151MC       | 1KHZ,0.3V              | 150              | ±20                 | 1.1                         | 0.4                     |
| SD54-181MC       | 1KHZ,0.3V              | 180              | ±20                 | 1.38                        | 0.38                    |
| SD54-221MC       | 1KHZ,0.3V              | 220              | ±20                 | 1.57                        | 0.35                    |

## 特长:

- \* 数量/ 卷: 1,500PCS
- \* 产品小型化, 圆形 5.8mm (6.1mm MAX) 高度 4.5mm TYP
- \* 使用载带包装运用于 SMT.
- \* 适用于回流焊 SMT 工艺.
- \* 广泛应用于降压转换器, 液精显示, 笔记本电脑, 个人掌上记事本, MP3/ MP4 播放器, 数码相机, 便携式光碟机等等.

Inductance Range/ 电感范围: 1.0- 220 mH

Temperature Range/ 使用温度: -30- 100°C

| RoHS Compliant SGS Certified Result |    |    |      |      |       |
|-------------------------------------|----|----|------|------|-------|
| Pb                                  | Cd | Hg | Cr+6 | PBBs | PBDEs |
| <1000ppm                            | Nd | Nd | Nd   | Nd   | Nd    |

- (1) Inductance is measured with a LCR meter:  
HP4284-A (Agilent)/ 3532-50 (HIOKI) or equivalent.  
Test frequency at 100kHz/ 1 KHz.
  - (2) DC resistance is measured with a Digital Multimeter  
TH2512B (TongHui) or equivalent.
  - (3) The DC Bias Test with TH2817 & TH1775 (Tong Hui)  
The maximum allowable current is a DC current which causes initial inductance to decrease by 25%, or temperature to rise by 40, whichever is smaller.  
(At ambient reference temperature: 20°C)
- (1) 电感直测仪: HP4284A (Agilent)/ 3532-50 (HIOKI)或同等 LCR METER. 测试频率 100KHz/1KHz.
  - (2) 直流电阻测试仪: TH2512B 或同等的 DCR 测试设备.
  - (3) 最大容许电流测试: TH2817 & TH1775; 最大容许电流定义: 电感下降 25%或温度上升 40 时取其小值作为最大容许电流. (周围环境温度 20°C)