

## TLVR100512 Series

### Features

- High saturation characteristic core for large saturation current and low loss.
- Closed magnetic circuit design reduces leakage flux.
- High precision DCR.
- Halogen free, RoHS compliant.

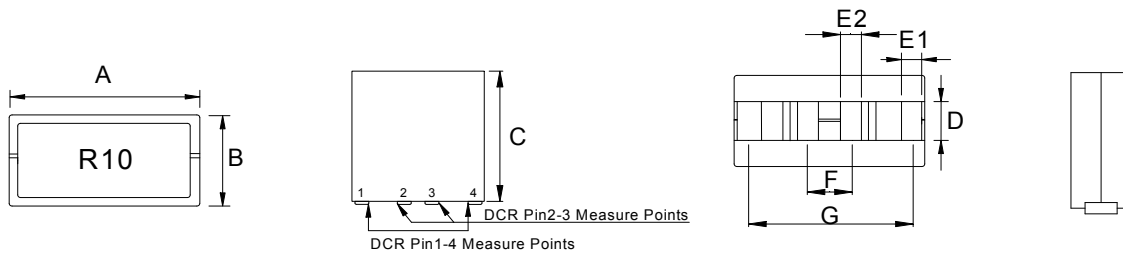
### Applications

- Server, desktop computer, notebook.
- Graphics, memory.
- Industrial equipment, telecom base station.

### Test Equipment and Conditions

- All test data is referenced to 25°C ambient.
- Operating temperature range -40°C to +125°C.(Including self - temperature rise)
- DC current(Irms)that will cause an approximate  $\Delta T$  of 40°C.
- DC current(Isat)that will cause Lo to drop approximately 20%.

### External Dimensions (Unit:mm)



| TYPE       | A       | B       | C        | D       | E1      | E2       | F        | G       | Q'Ty / Reel |
|------------|---------|---------|----------|---------|---------|----------|----------|---------|-------------|
| TLVR100512 | 9.7±0.3 | 4.7±0.3 | 11.7±0.3 | 2.3±0.3 | 1.1±0.3 | 0.86±0.3 | 1.96±0.5 | 8.6±0.5 | 300         |

### Part Number Code

| TLVR        | 1005               | 12               | K                  | 70N        | FC                   |
|-------------|--------------------|------------------|--------------------|------------|----------------------|
| Series Name | Dimensions:<br>L*W | Dimensions:<br>H | Tolerance<br>K:10% | Inductance | Internal<br>controls |

## TLVR100512 Series

| Part Number      | L1(nH)<br>1-4/2-3<br>±10% | L2(nH)<br>@Isat1<br>Min<br>1-4 | DCR1-4<br>(mΩ)<br>±10% | DCR 2-3<br>(m Ω)<br>±10% | Isat1<br>(Amp) | Isat<br>2(Amp) | Isat 3<br>(Amp) | Irms 1-4 | Irms 2-3 |
|------------------|---------------------------|--------------------------------|------------------------|--------------------------|----------------|----------------|-----------------|----------|----------|
|                  | @25℃                      | @25℃                           | @25℃                   | @25℃                     | @25℃           | @100℃          | @125℃           | (Amp)    | (Amp)    |
| TLVR100512K70NFC | 70                        | 50                             | 0.125                  | 0.45                     | 127            | 110            | 100             | 75       | 35       |
| TLVR100512K80NFC | 80                        | 57                             | 0.125                  | 0.45                     | 111            | 96             | 87              | 75       | 35       |
| TLVR100512K90NFC | 90                        | 64                             | 0.125                  | 0.45                     | 98             | 85             | 77              | 75       | 35       |
| TLVR100512KR10FC | 100                       | 72                             | 0.125                  | 0.45                     | 89             | 77             | 70              | 75       | 35       |
| TLVR100512KR12FC | 120                       | 86                             | 0.125                  | 0.45                     | 74             | 64             | 58              | 75       | 35       |
| TLVR100512KR15FC | 150                       | 108                            | 0.125                  | 0.45                     | 59             | 51             | 46              | 75       | 35       |
| TLVR100512KR17FC | 170                       | 122                            | 0.125                  | 0.45                     | 52             | 45             | 41              | 75       | 35       |