



# SC7232 Series SMD High Current Inductor

[For new designs, we recommend SC2511 (see page 2)]

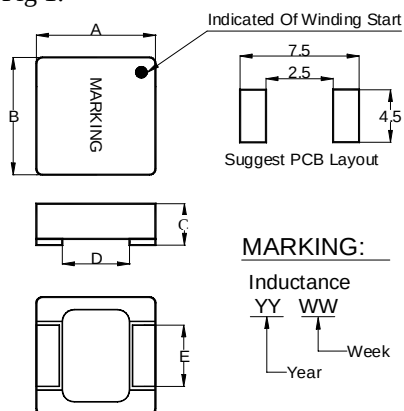


## Features:

- 0.25" package SMD power inductor.
- Ideally for DC to DC converter, VRM & high density board design.
- Operating up to 3 MHz application.
- Low leakage flux.
- Low profile.
- Operating temperature: -40 °C to 150 °C.
- Suitable for IR reflow and wave solder process.



Fig 1.



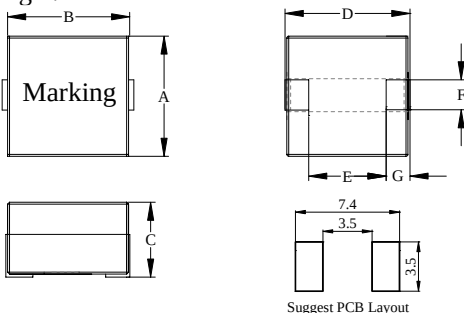
| Mechanical Specifications (Unit:mm) |       |       |       |       |         |      |      |      |
|-------------------------------------|-------|-------|-------|-------|---------|------|------|------|
| Part Number                         | A     | B     | C     | D     | E       | F    | G    | Fig. |
| SC7232                              | ± 0.4 | ± 0.4 | ± 0.4 | ± 0.4 | typical | Ref. | Ref. | 1    |
| SC7232                              | 7.2   | 6.6   | 3.2   | 4.3   | 2.8     | N/A  | N/A  | 2    |

| Part Number | L ±20% (μH) | DCR±7% (mΩ) | I <sub>rms</sub> (Amp) | L @ I <sub>rms</sub> (μH) | I <sub>max</sub> (Amp) | L @ I <sub>max</sub> (μH) | Fig. |
|-------------|-------------|-------------|------------------------|---------------------------|------------------------|---------------------------|------|
| SC7232-R10M | 0.10        | 1.02        | 22                     | 0.09                      | 32                     | 0.08                      | 1    |
| SC7232-R22M | 0.22        | 1.50        | 17                     | 0.20                      | 28                     | 0.19                      | 1    |
| SC7232-R47M | 0.47        | 2.80        | 15                     | 0.37                      | 25                     | 0.30                      | 1    |
| SC7232-R72M | 0.72        | 7.48        | 12.5                   | 0.60                      | 22                     | 0.44                      | 1    |
| SC7232-1R0M | 1.0         | 7.80        | 10                     | 0.85                      | 15                     | 0.72                      | 1    |
| SC7232-1R5M | 1.5         | 8.80        | 9                      | 1.10                      | 14                     | 1.00                      | 1    |
| SC7232-2R2M | 2.2         | 10.40       | 8                      | 1.45                      | 13                     | 1.10                      | 2    |
| SC7232-3R0M | 3.0         | 22.20       | 6.5                    | 2.35                      | 8.5                    | 2.10                      | 1    |

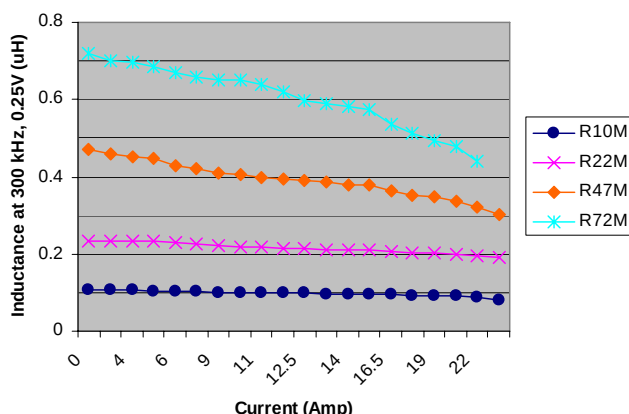
## Notes:

1. Test condition: 300 kHz & 600 kHz, 0.25V, 25°C.
2. I<sub>rms</sub>: DC current rating at 40°C temperature raise (typical).
3. I<sub>max</sub>: DC Current rating at max. of 100°C temperature raise.
4. Tape & Reel QTYs= 1500 pcs per reel.
5. SC7232-R10M is the replacement part number for SC2912-R11M.

Fig 2.



SC7232 Family DC Bias Curve (0.1~0.72 μH)



SC7232 Family DC Bias Curve (1.0~3.0 μH)

