

High Current SMD Power Inductors - SBP84 SERIES



* Features :

1. Voltage regulator modules (VRMs) for servers, microprocessors.
2. High frequency, high current switching power supplies.
3. Surface mount inductors designed for high speed, high current switch mode applications requiring lower inductance.
4. Gapped ferrite cores for maximum efficiency.

5. Inductance values from 150nH to 200nH and Current range up to 15 Amps.

* Electrical Characteristic

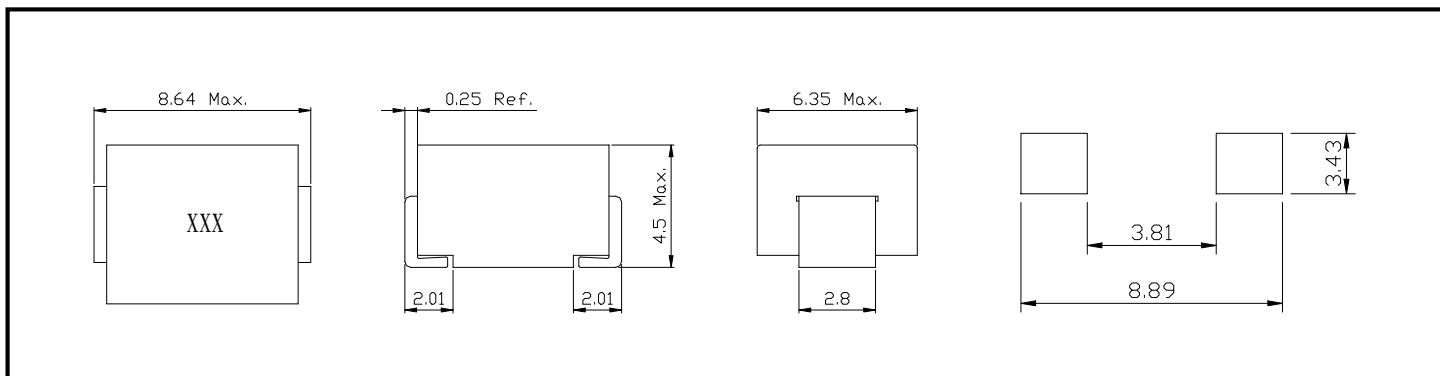
- a. Storage temperature range : -40°C to + 125°C.
- b. Operating ambient temperature range : -40°C to + 85°C (range is application specific)
- c. Infrared reflow temperature : +260°C for 10 seconds maximum.
- d. Frequency Range : 300KHz to 2MHz.

PART NUMBERING SYSTEM

| | | | | | |
|------------|------------|---|-------------|---|-----------|
| SBP | 84 | — | R20M | — | LF |
| TYPE | DIMENSIONS | | INDUCTANCE | | LEAD FREE |

SHAPES AND DIMENSIONS

UNIT : mm





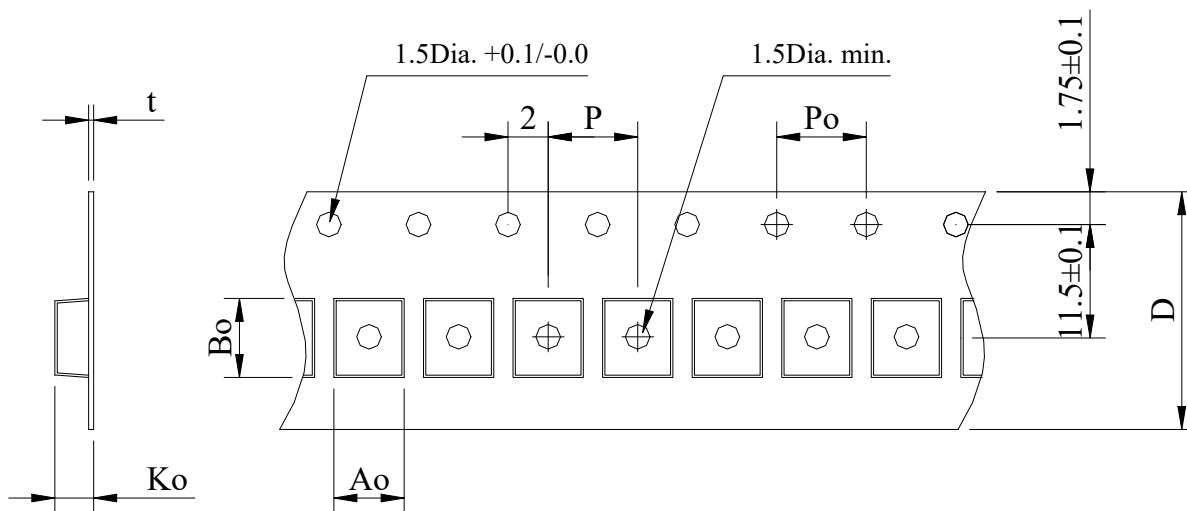
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SPECIFICATION TABLE

| PART NUMBER | INDUCTANCE @0Adc (nH±20%) | INDUCTANCE @Irated (nH±20%) | DCR (mΩ) (max) | Irated (Adc) | Saturation Current (A) | | |
|---------------|---------------------------------|-----------------------------------|-------------------|-----------------|------------------------|------|-------|
| | | | | | -40°C | 25°C | 125°C |
| SBP84-R15M-LF | 150 | 142.5 | 0.56 | 15 | 18.2 | 18.0 | 16.20 |
| SBP84-R20M-LF | 200 | 190 | 0.56 | 15 | 17.0 | 16.8 | 15.12 |

PACKAGING SPECIFICATION



| SERIES | Reel (PCS) | DIMENSIONS (m/m) | | | | | | |
|--------|------------|------------------|-----|-----|--------|------|-----|-----------|
| | | Ao | Bo | Ko | D | P | Po | t |
| SBP84 | 1000 | 6.7 | 9.0 | 4.6 | 24±0.3 | 12.0 | 4.0 | 0.35±0.05 |