

## SBP84 SERIES ~ High Current SMD Power Inductors



### \* 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

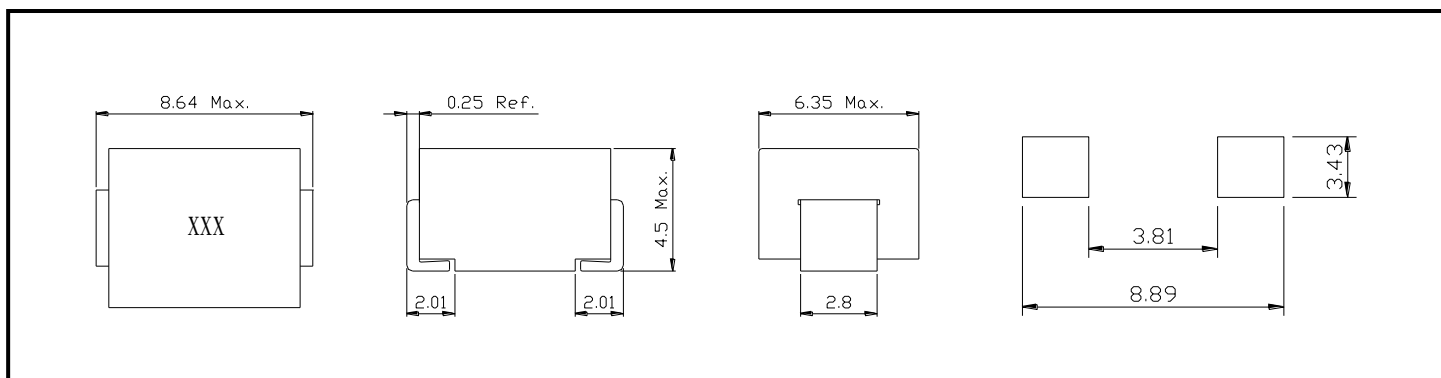
- a. Storage temperature range : -40°C to + 125°C.
- b. Operating ambient temperature range : -40°C to + 85°C (range is application specific)
- c. Infrared reflow temperature : +260°C for 10 seconds maximum.
- d. Frequency Range : 300KHz to 2MHz.

### PART NUMBERING SYSTEM

<b>SBP</b>	<b>84</b>	—	<b>R20M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### SHAPES AND DIMENSIONS

UNIT : mm



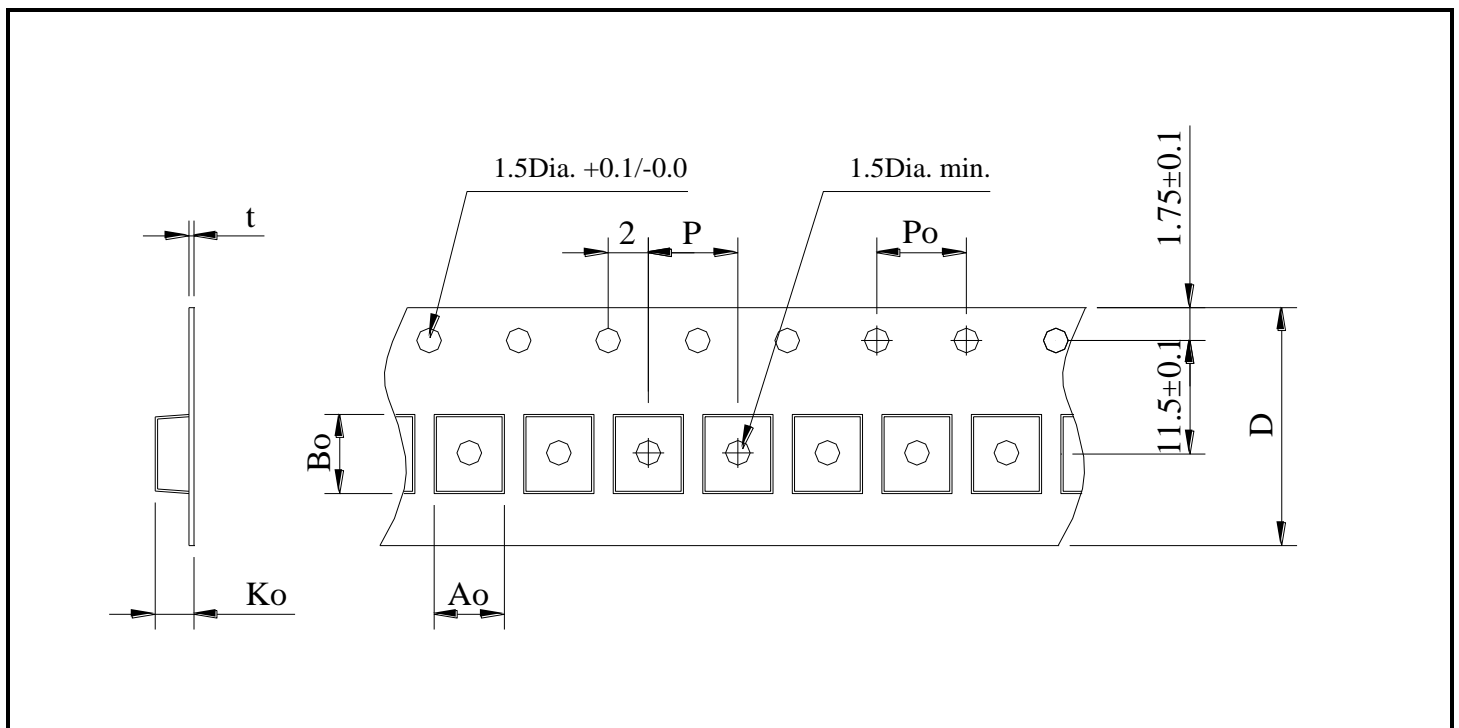
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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE	INDUCTANCE	DCR (mΩ) (max)	I <sub>rated</sub> (ADC)	Saturation Current (A)		
	@0Adc (nH±20%)	@I <sub>rated</sub> (nH±20%)			-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)						
		A <sub>o</sub>	B <sub>o</sub>	K <sub>o</sub>	D	P	P <sub>o</sub>	t
SBP84	1000	6.7	9.0	4.6	24±0.3	12.0	4.0	0.35±0.05