



High Current SMD Power Inductors - SBP73 SERIES



PART NUMBERING SYSTEM

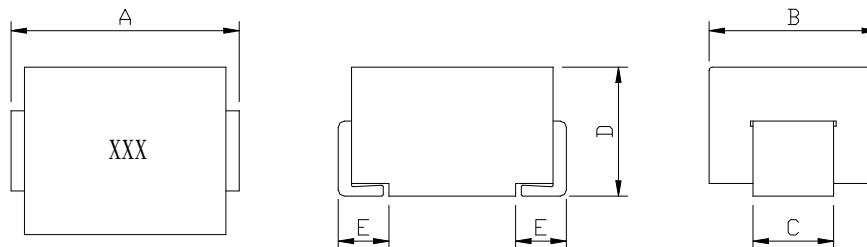
SBP	73	—	R12M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES

1. Voltage regulator modules (VRMs) for servers, microprocessors.
 2. High frequency, high current switching power supplies.
- 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.**
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 47nH to 120nH.**
 6. **Current range up to 42 Amps.**

SHAPES AND DIMENSIONS

UNIT : mm



A=7.2 Max. B=7.0 Max. C=3.0 Ref. D=3.0 Max. E=1.3 Ref.

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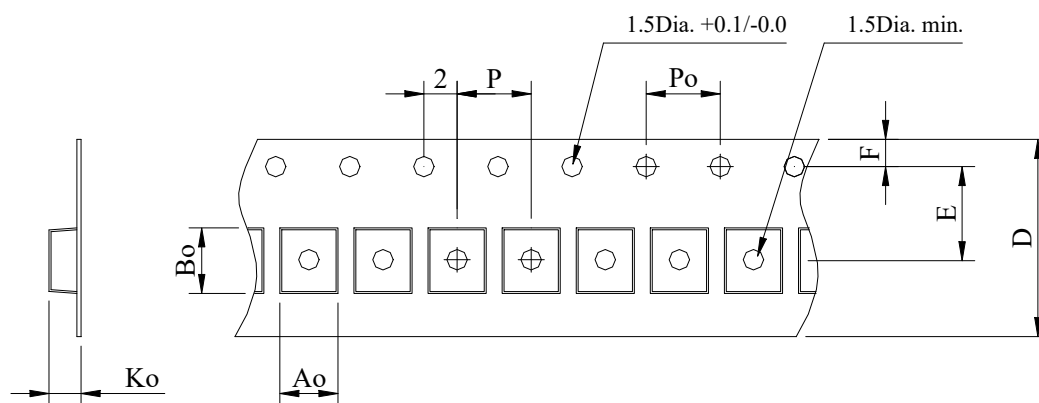


SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (nH)	DCR (mΩ) (Nom.)	I rms Amps	I sat Amps	Volt-μ Sec (Vμs) (Ref.)
SBP73-47NM-LF	47±20%	0.24	39.0	42.0	0.75
SBP73-68NM-LF	68±20%	0.24	39.0	32.0	0.75
SBP73-82NM-LF	82±20%	0.24	39.0	26.0	0.75
SBP73-R10M-LF	100±20%	0.24	39.0	22.0	0.75
SBP73-R12M-LF	120±20%	0.24	39.0	18.0	0.75

- Isat: DC current at which the inductance drops 30% (typ) from its value without current.
- Irms: Average current for 40°C temperature rise from 25°C ambient.
- Operating temperature range -40°C to +125°C ,
- Electrical specifications at 20°C.

PACKAGING SPECIFICATION



STAYLE	Q'TY (PCS)	DIMENSIONS (m/m)							
		Ao	Bo	Ko	P	Po	D±0.3	E	F
13~16	1,000	6.6	7.1	3.2	12.0	4.0	16.0	7.5	1.75