

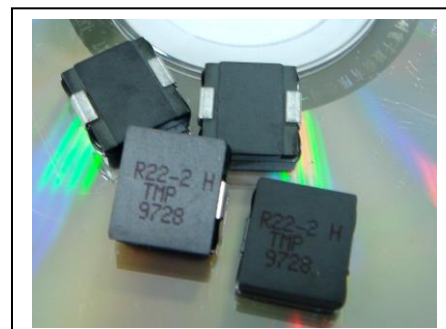
# SMD HIGH CURRENT POWER BEAD INDUCTORS



MODEL NO. : SPB-12040 HF SERIES

## FEATURES:

- \* SINGLE PACKAGE CONTAINS TWO INDEPENDENT INDUCTORS.
- \* SUITABLE FOR MULTI-PHASE AND SINGLE PHASE APPLICATION.
- \* SUPERIOR QUALITY FOR AN AUTOMATED PRODUCTION LINE.
- \* PICK AND PLACE COMPATIBLE.
- \* TAPE AND REEL PACKING.
- \* COMPLIANT WITH RoHS AND HALOGEN FREE.



## APPLICATION :

- \* SERVERS
- \* MOTHERBOARD
- \* VGA CARD

## ELECTRICAL SPECIFICATION:

### Dual Phase Integrated Inductor Specification

PART NO	INDUCTANCE @0 ADC (nH) ±20%		DCR/PHASE MAX (mΩ)		LEAKAGE INDUCTANCE (nH) TYP	RATED CURRENT (ADC)		SATURATION CURRENT (ADC) (NOTE 2)			TEMPERATURE RISE CURRENT (ADC)	
	1-4	2-3	1-4	2-3		1-4	2-3	1-2 W/4,3 SHORTED	1-4	2-3	1-4	2-3
SPB-12040-R20-4 HF	200	200	0.28	0.28	50	31	31	40	18	18	28	28

### Single Phase Inductor Specifications

PART NO	INDUCTANCE @0 ADC (nH) ±20%	DCR (mΩ) ±10%	RATED CURRENT (ADC)	SATURATION CURRENT (ADC) (NOTE 2)	TEMPERATURE RISE CURRENT (ADC)
SPB-12040-R10-2 HF	100	0.17	34	55	34
SPB-12040-R16-2 HF	160	0.17	30	30	34
SPB-12040-R22-2 HF	220	0.17	22	22	34
SPB-12040-R27-2 HF	270	0.17	16.5	16.5	34
SPB-12040-R35-2 HF	350	0.17	12	12	34

NOTE(1) : Test frequency: 100 KHZ,1Vrms.

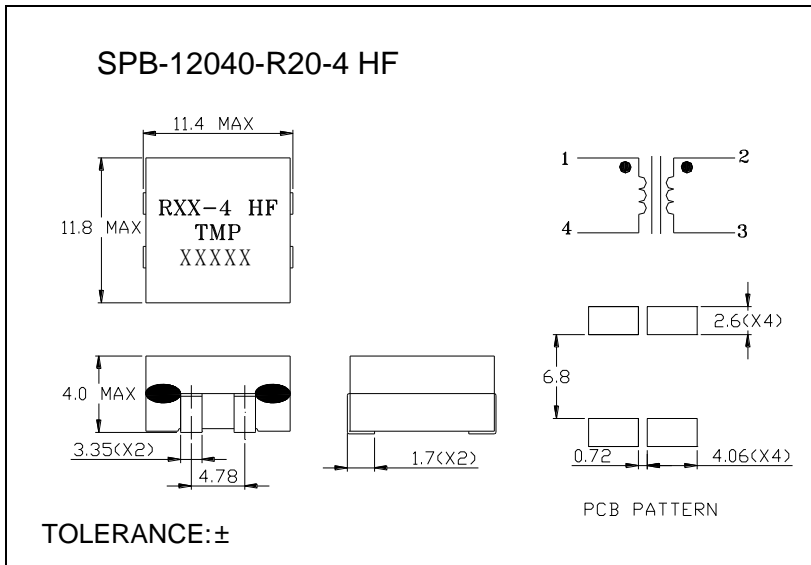
NOTE(2) : The saturation current indicates the value of DC current is approximately 30% lower than its initial value of inductance.

NOTE(3) : ΔT=40°C approximately under the temperature rise current.

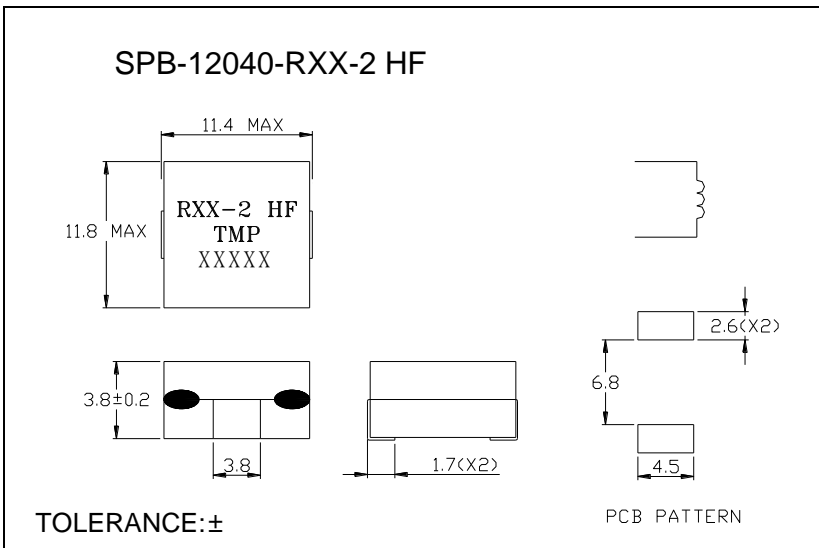
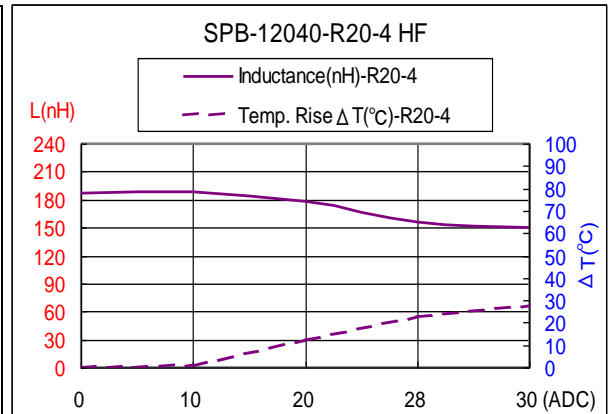
NOTE(4) : The rated current represents the DC current per phase that the inductor can tolerate before saturation.

NOTE(5): Operating temperature range: -40°C~+150°C.

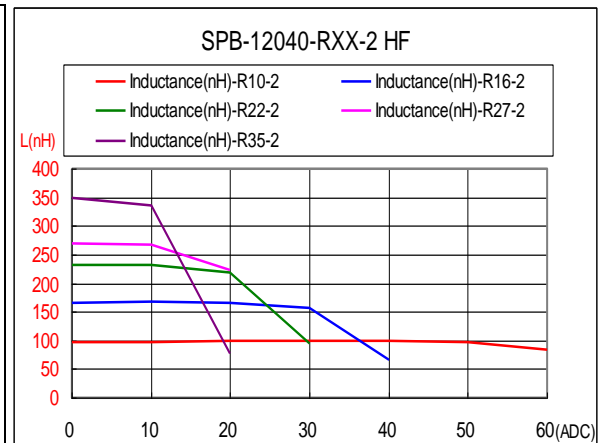
### PHYSICAL DIMENSION : (UNIT:mm)



### INDUCTANCE /TEMPERATURE RISE VS DC BIAS:



### INDUCTANCE VS DC BIAS:



### PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",700PCS.
2. TAPE WIDTH:24mm.
3. REEL WIDTH:29.5mm.
4. COMPONENT PITCH:16mm