

HIGH CURRENT INDUCTORS



MODEL NO. : FMJ- 1040R HF SERIES

FEATURES:

- * COMPACT UNIBODY CONSTRUCTION.
- * SOLID STRUCTURE WITH LOWER LOSS,LOW PROFILE, HIGH POWER, LOW DCR.
- * CLOSED MAGNETIC CIRCUIT CONSTRUCTION FOR HIGH DENSITY BOARD ASSEMBLY .
- * MORE EFFICIENT NOISE SUPPRESSION.
- * CUSTOM DESIGNS AVAILABLE.
- * COMPLIANT WITH RoHS AND HALOGEN FREE.

APPLICATION :

- * DC/DC CONVERTER IN POWER REGULATION SYSTEM.
 - NOTEBOOK COMPUTERS ● DESKTOP PC.
 - VGA CARD ● SERVERS ● ROUTERS
- * INDUCTOR FOR GENERAL PURPOSE AVAILABLE.

APPEARANCE:



ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE (uH) ±20%	DCR(mΩ)		TEMPERATURE RISE CURRENT (ADC) TYPICAL	SATURATION CURRENT (ADC) TYPICAL (NOTE 3)
		TYPICAL	MAX		
FMJ-1040R-R22 HF	0.22	0.8	1.0	35	60
FMJ-1040R-R36 HF	0.36	1.13	1.25	32	60
FMJ-1040R-R47 HF	0.47	1.5	1.7	30	40
FMJ-1040R-R56 HF	0.56	1.68	1.85	27	40
FMJ-1040R-R68 HF	0.68	2.17	2.4	24	39
FMJ-1040R-1R0 HF	1.0	2.7	3.3	19	36
FMJ-1040R-1R5 HF	1.5	3.8	4.2	17	26
FMJ-1040R-2R2 HF	2.2	6.8	8.0	12	18
FMJ-1040R-3R3 HF	3.3	10.5	11.8	10	16
FMJ-1040R-4R7 HF	4.7	15	19	9.5	14
FMJ-1040R-6R8 HF	6.8	22.5	25	8.0	12
FMJ-1040R-100 HF	10	25	30	7.8	8.5
FMJ-1040R-150 HF	15	37	45	6.5	7.0
FMJ-1040R-220 HF	22	55	66	5.0	6.0
FMJ-1040R-330 HF	33	78	92	4.4	5.0
FMJ-1040R-470 HF	47	126	145	3.3	4.0
FMJ-1040R-680 HF	68	166	195	2.5	3.5
FMJ-1040R-101 HF	100	305	350	2.2	3.0

NOTE(1): Measuring condition: 100 KHZ, 1Vrms.

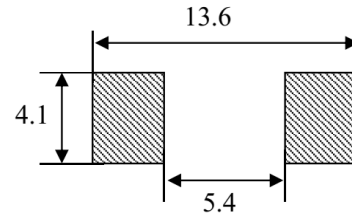
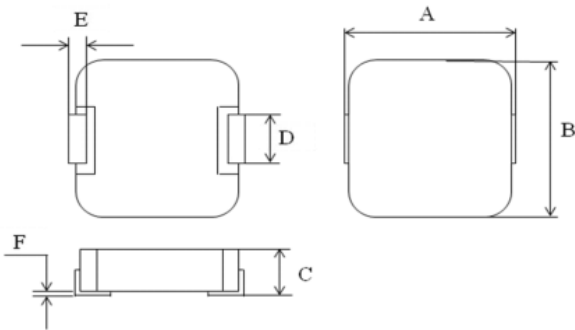
NOTE(2): Δ T=40°C approximately under the temperature rise current.

NOTE(3): The saturation current indicates the value of DC current is approximately 30% lower than its initial value of inductance.

NOTE(4): Operating temperature range -55°C~ +125°C (ambient + self-temp. rise) .

NOTE(5): The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

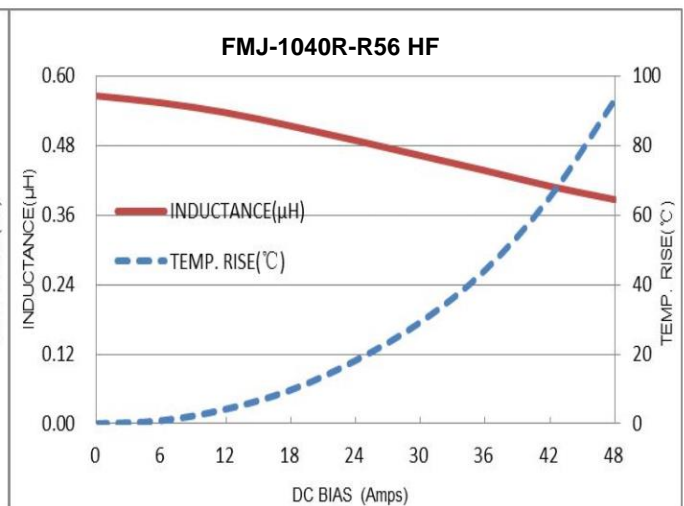
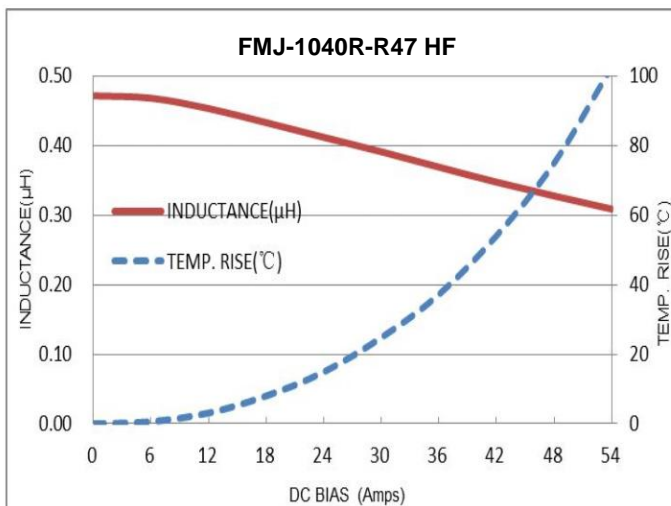
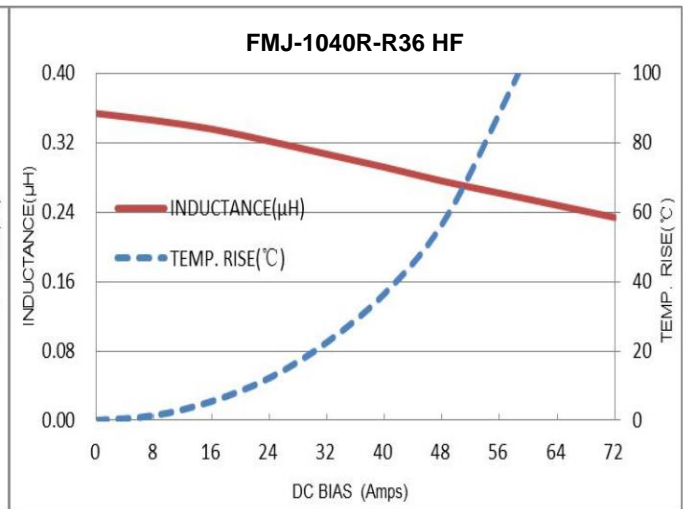
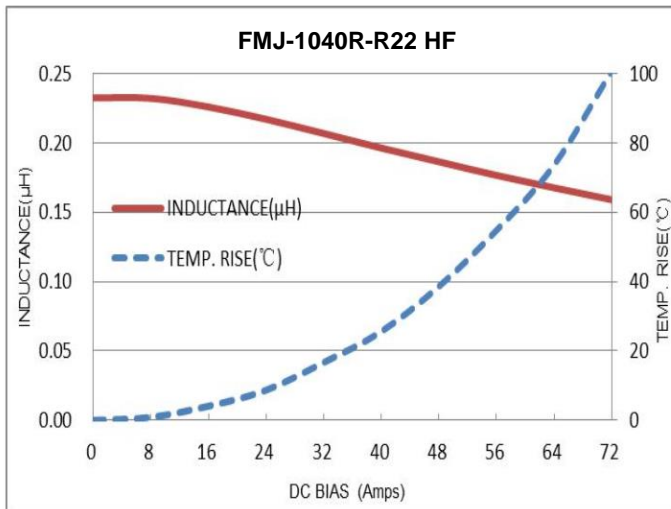
PHYSICAL DIMENSION : (UNIT:mm)

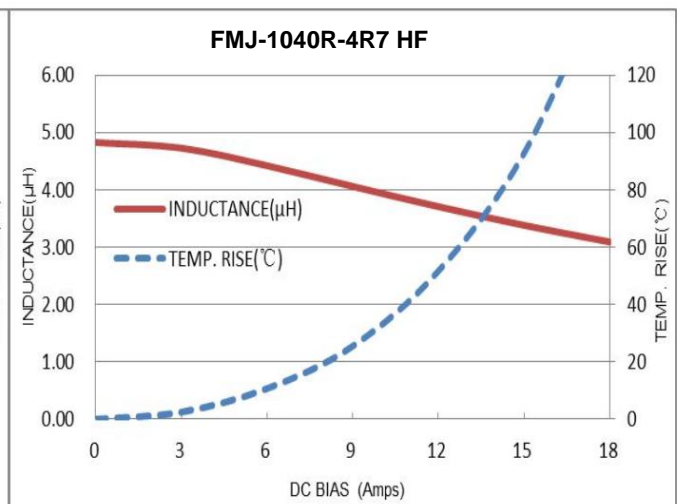
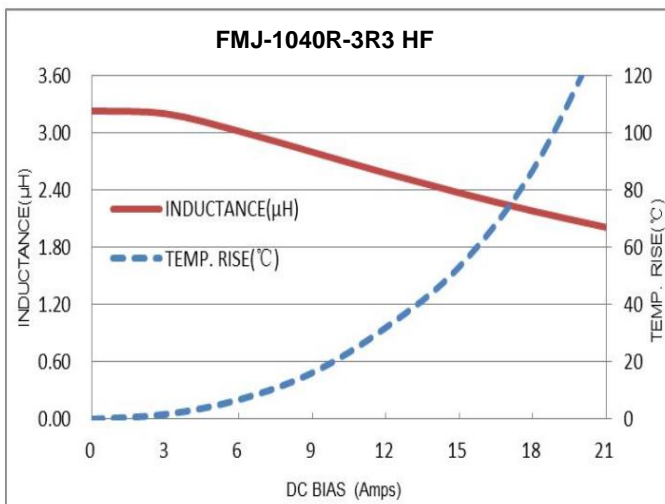
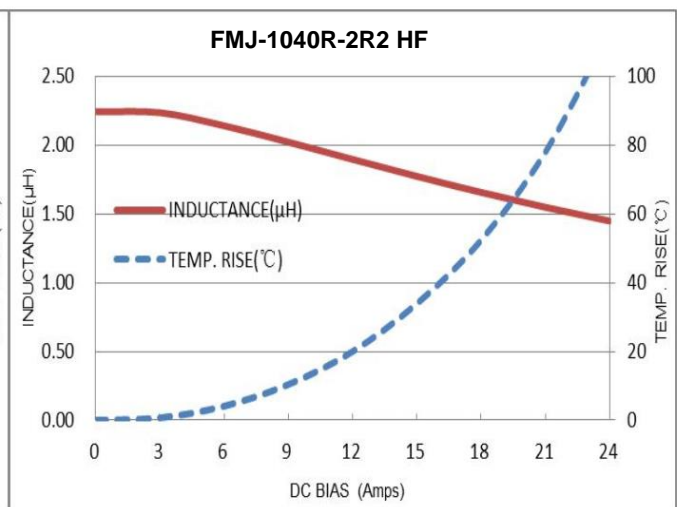
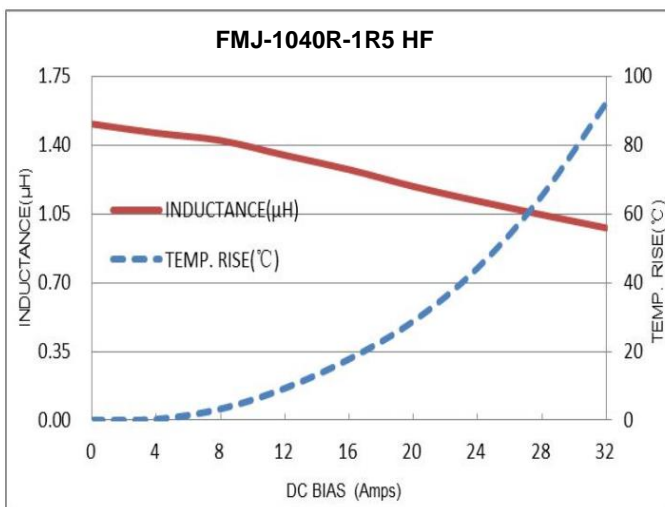
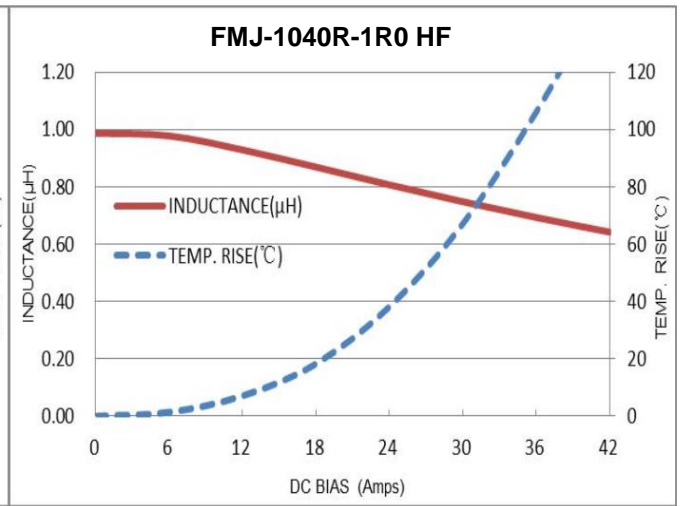
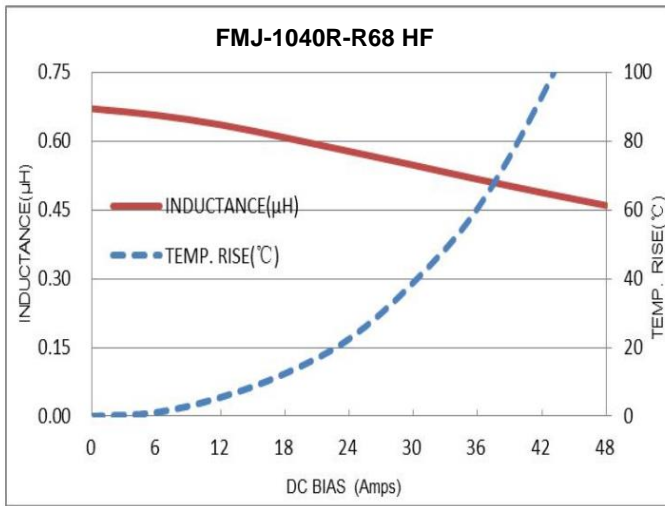


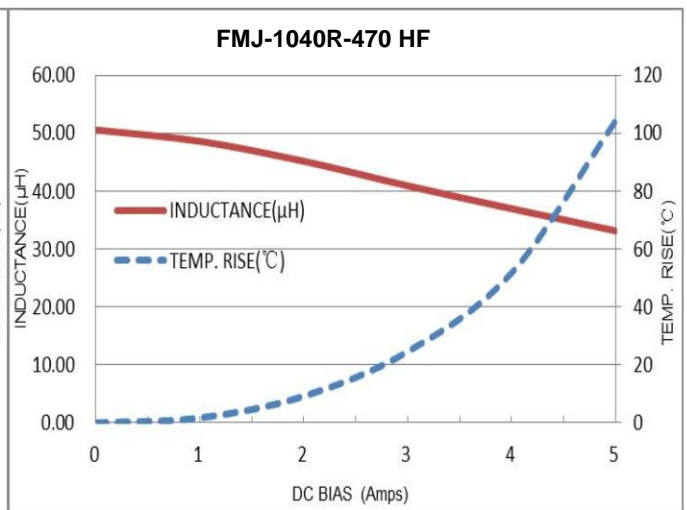
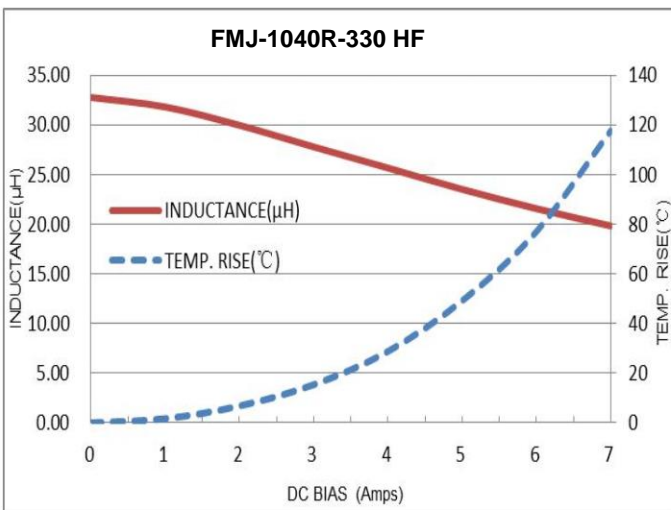
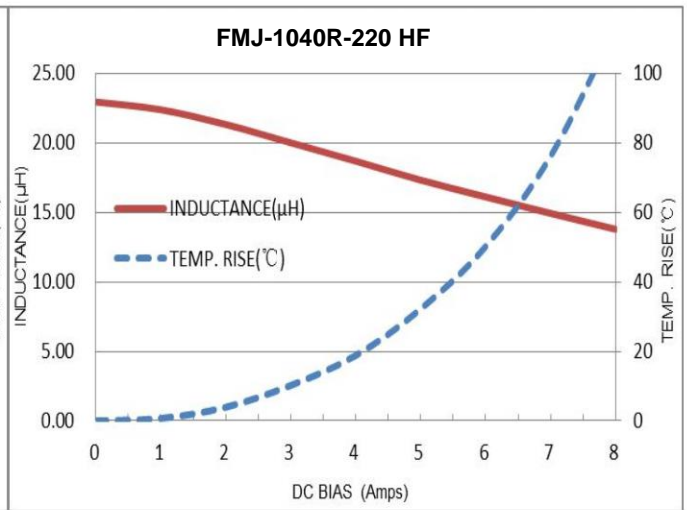
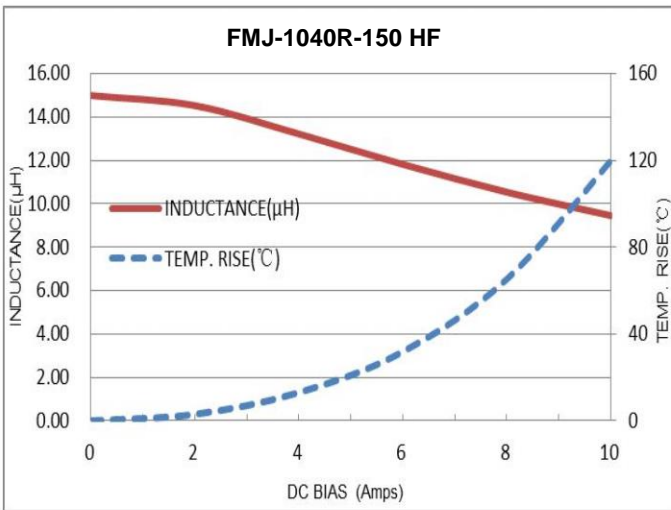
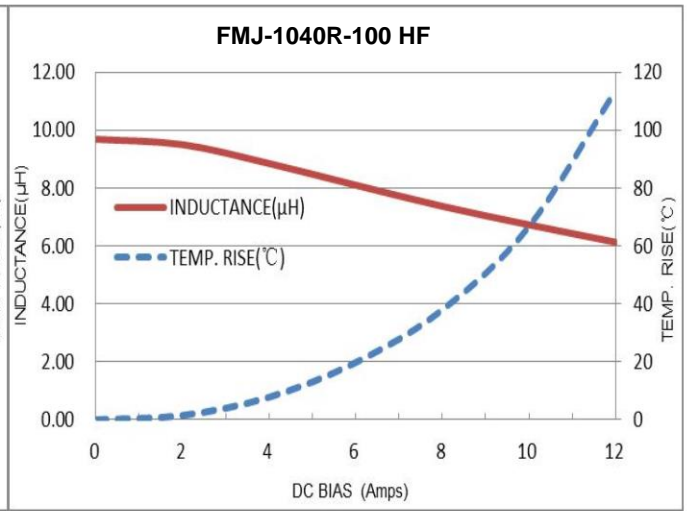
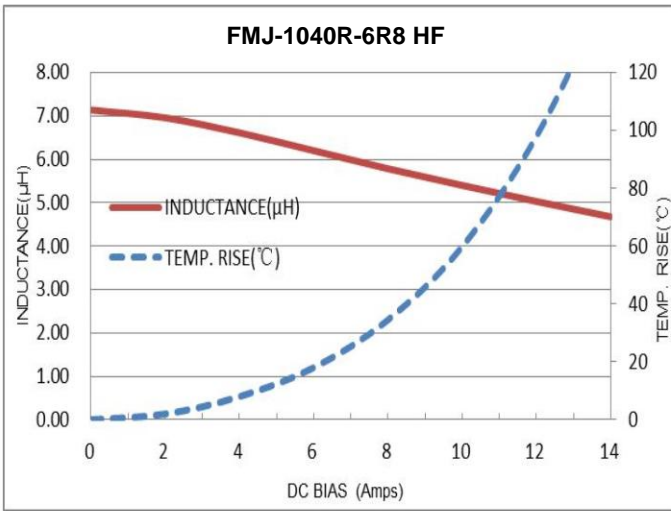
PCB PATTERN

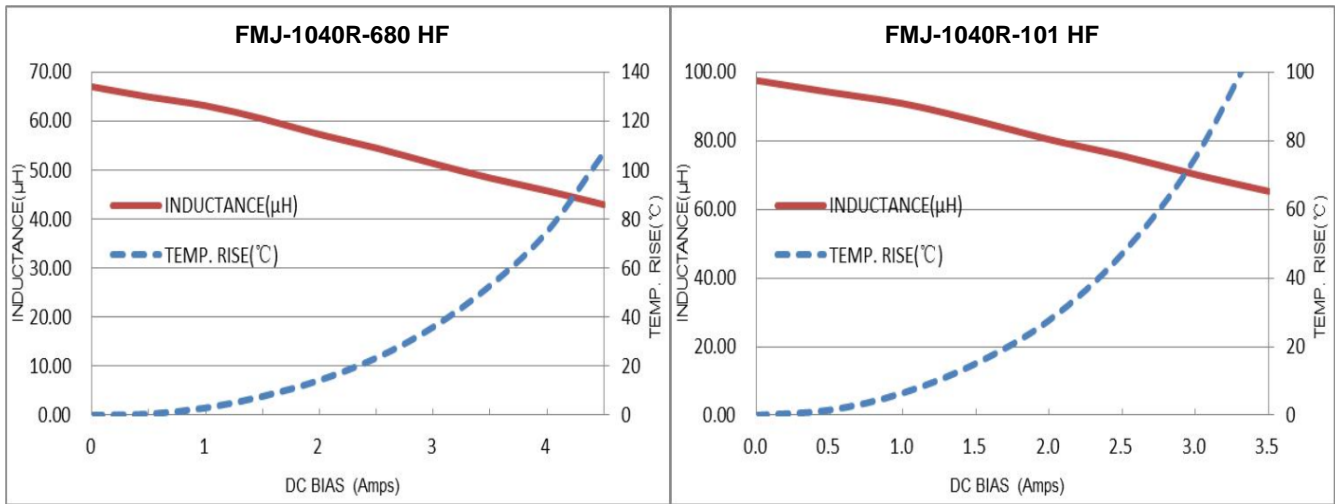
A	B	C	D	E	F
11.5 Max	10.0±0.3	4.0 Max..	3.0±0.5	2.0±0.5	0~0.15

Inductance and Temperature Rise vs. DC Current









PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",800PCS.
2. TAPE WIDTH:24mm.
3. REEL WIDTH:29.5mm.
4. COMPONENT PITCH:16mm
5. WEIGHT: 2.2 g / pcs typ.