

SPECIFICATION OF BSFQ□□□BNRM SERIES

AEC-Q200



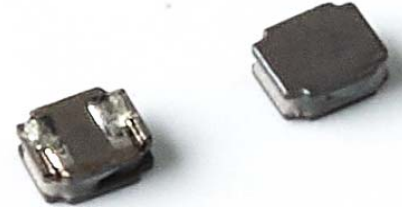
FEATURES

1. SMT designed ferrite/alloy core with magnetic resin coating components for power circuits.
2. High magnetic shielding construction and acted high performance for EMC/EMI protection.
3. Low coil resistance with high current application.
4. Compatible with Pb-free RoHS and AEC-Q200.



APPLICATIONS

- 1 Automotive application



ORDERING CODE

BSFQ6030BNRM 2R2 M T
 (1) (2) (3)(4)

- (1) PRODUCT TYPE CODE AND SIZE CODE
- (2) INDUCTANCE
- (3) INDUCTANCE TOLERANCE (M : ±20%, N : ±30%)
- (4) REEL TAPING

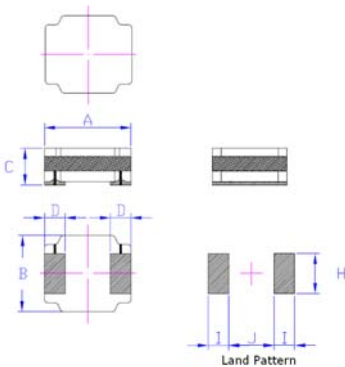


FIG 1

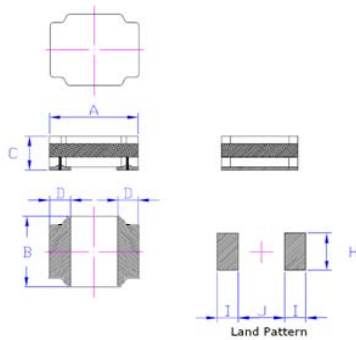


FIG 2

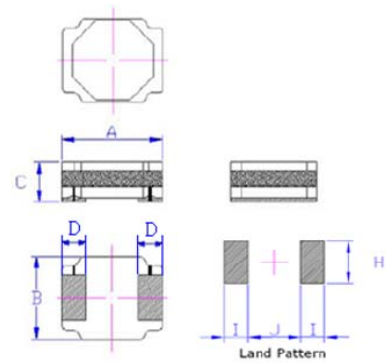


FIG 3

SHAPE & DIMENSIONS

UNIT:mm

SIZE CODE	A mm	B mm	C mm	D mm	H	I	J	FIG				
BSFQ2010BNRM	2.0±0.2	1.6±0.2	1.05max	0.6±0.2	1.10	1.00	0.90	1				
BSFQ2512BNRM	2.5±0.2	2.1±0.2	1.25max	0.85±0.20	1.40	0.95	0.90	1				
BSFQ3015BNRM	3.0±0.2	3.0±0.2	1.55max	0.9±0.2	2.90	1.00	1.20	2				
BSFQ6030BNRM	6.0±0.2	6.0±0.2	3.0±0.2	1.9±0.3	5.70	2.00	2.00	3				
BSFQ6030BNRMX	6.0±0.2	6.0±0.2	3.0±0.2	1.9±0.3	5.70	2.00	2.00	1				

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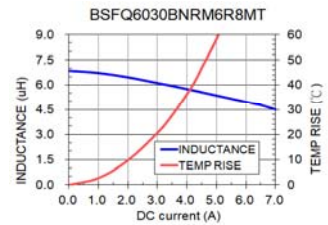
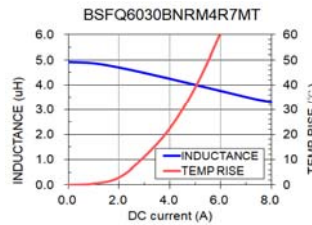
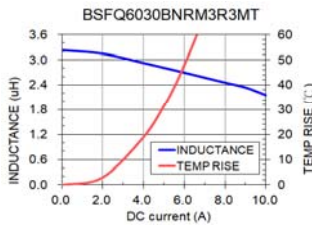
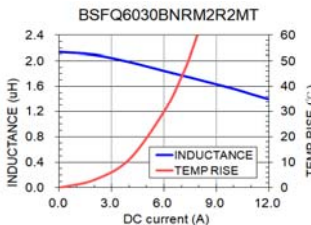
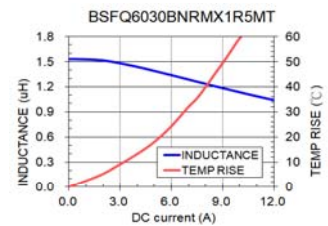
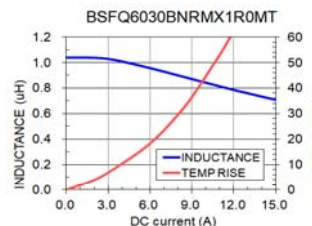
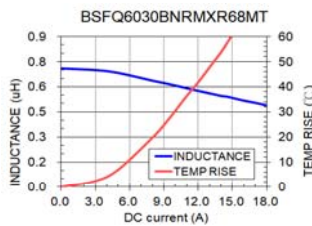
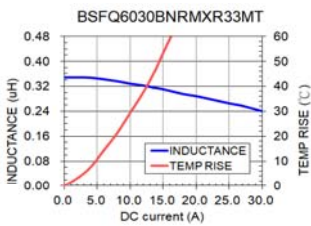
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SMD POWER INDUCTORS → BSFQ6030BNRM,BNRMX SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μH)	DC Resistance (mΩ)max	SRF(MHz) min	Isat (A)Typ	IDC 40°C (A)Typ	IDC 2 (@125°C) (A)Typ
BSFQ6030BNRMXR33MT	0.33	9	75	24.0	12.0	8.1
BSFQ6030BNRMXR68MT	0.68	12	45	17.0	11.0	6.6
BSFQ6030BNRMX1R0MT	1.00	14	40	14.0	9.0	5.4
BSFQ6030BNRMX1R5MT	1.50	20	30	10.5	7.5	4.5
BSFQ6030BNRM2R2MT	2.20	27	20	10.3	6.8	3.7
BSFQ6030BNRM3R3MT	3.30	35	20	9.0	5.6	3.1
BSFQ6030BNRM4R7MT	4.70	45	15	7.2	5.2	2.9
BSFQ6030BNRM6R8MT	6.80	65	13	6.4	4.2	2.3
BSFQ6030BNRM100MT	10.0	82	7	4.8	4.0	2.2
BSFQ6030BNRM150MT	15.0	150	7	4.0	2.8	1.5
BSFQ6030BNRM220MT	22.0	170	5	3.2	2.6	1.4
BSFQ6030BNRM330MT	33.0	250	2.5	2.6	2.3	1.3
BSFQ6030BNRM470MT	47.0	360	2.5	2.3	1.8	1.0



※Test Frequency: 100KHz/1V

※Tolerance: M±20%

※Isat: Based on Inductance decrease 30%

※IDC1: Based on Temperature increase 40°C

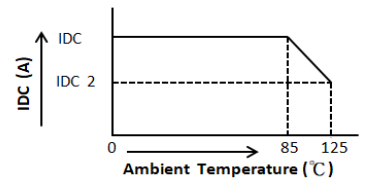
※IDC 2: Temperature rising less than 40°C under temp=125°C

※ As shown in the diagram below, de-rating current is applied, which based on the operating temperature.

※Operating temperature range : -40 to +165°C (including self-heating)

※The Operating Temperature (which was defined as ambient temp.+ parts temp rising) should not exceed 165°C

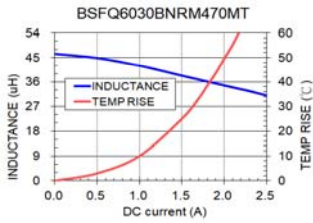
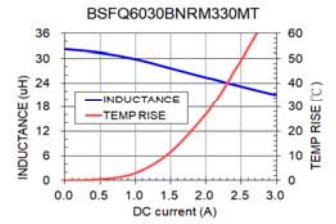
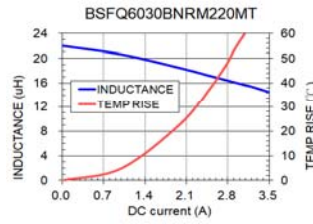
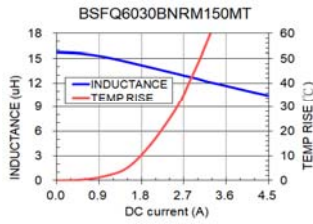
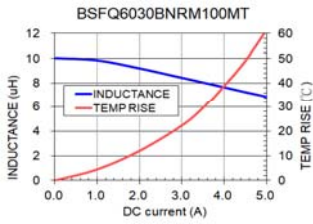
※Storage Temp. : -40°C TO+85°C



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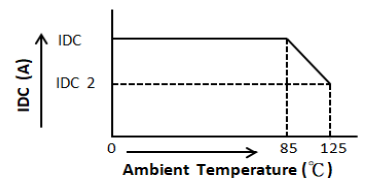
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