HIGH CURRENT POWER INDUCTOR FACSB1809,2212 SERIES

FEATURES :

Magnetic shielding structure, excellent resistance to electro magnetic interference
Flat wire winding, achieve a low D.C.R esistance
Low loss, high efficiency, wide application frequency and application
Vertical structure design, save space
Operating temperature: -40℃ ~ +125℃
(Including coil's temperature rise)

PRODUCT IDENTIFICATION:

CSB 1809 - 1R3 M
a b c d

a: Series name
b: Product dimensions
c: Inductance Value(1R0:1.0uH;100;10uH;101:100uH)
d: Inducatance Tolerance(K:10%;M:20%;N:30%)

ELECTRICAL CHARACTERISTICS

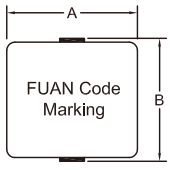
Part Number	Inductance (uH)±20%	DCR(mΩ)		Saturation Current(A) Typical	Temperature Current(A) Typical
		Typical	Max		
FACSB1809-R82M	0.82	0.54	0.59	65.0	41.5
FACSB1809-1R3M	1.30	0.94	1.03	62.0	34.5
FACSB1809-1R9M	1.90	1.20	1.30	52.0	32.5
FACSB1809-2R6M	2.60	1.58	1.74	50.0	31.5
FACSB1809-3R5M	3.50	3.10	3.40	37.0	22.5
FACSB1809-4R5M	4.50	3.40	3.70	37.0	20.5
FACSB1809-5R6M	5.60	3.70	4.10	33.0	19.0
FACSB1809-6R8M	6.80	4.10	4.50	27.0	18.5
FACSB1809-100M	10.0	6.90	7.60	21.5	15.0

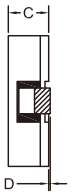
Part Number	Inductance (uH)±20%	DCR(mΩ)		Saturation Current(A) Typical	Temperature Current(A) Typical
		Typical	Max		
FACSB2212-4R7M	4.70	1.83	2.10	32.0	32.0
FACSB2212-330M	33.0	10.8	12.5	15.0	13.0

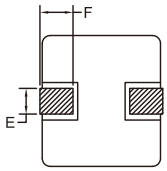
TEST CONDITIONS

1. All data is tested based on 25℃ ambient temperature.
2. Inductance measure condition at 100kHz, 0.1V.
3. Saturation current : the actual value of DC current when the inductance decrease 30% of its initial value.
4. Temperature rise current : the actual value of DC current when the temperature rise is △T50(Ta=25℃).
5. Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

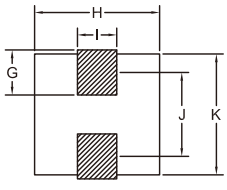
TECHNICAL INFORMATION

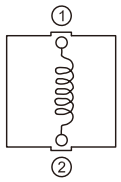






ELECTRICAL SCHEMATIC & PAD LAYOUT





DIMENSIONS:MM

Part number	A	B	C	D	E	F	G	H	I	J	K
FACSB1809	18.2±0.5	18.3±1.0	8.9±0.3	0.0-0.3	4.0±0.5	4.5±1.0	6.0 REF	18.7 REF	6.0 REF	14.0 REF	18.7 REF
FACSB2212	22.0±0.5	22.5±1.0	12.0±0.5	0.0-0.3	4.0±0.5	5.0±1.0	6.5 REF	23.0 REF	6.0 REF	17.5 REF	23.0 REF