

HIGH CURRENT POWER INDUCTOR FACSB1030,1040 SERIES



FEATURES:

Magnetic shielding structure, excellent resistance to electro magnetic interference
Flat wire winding, achieve a low D.C. R resistance
Low loss, high efficiency, wide application frequency and application
Vertical structure design, save space
Operating temperature: -40°C~ +125°C
[Including coils temperature rise]

PRODUCT IDENTIFICATION:

CSB 1030 - R20 M
a b c d

a: Series name

b: Product dimensions

c: Inductance Value [1R0:1.0uH;100;10uH;101:100uH]

d: Inductance Tolerance [K:10%;M:20%;N:30%]

ELECTRICAL CHARACTERISTICS

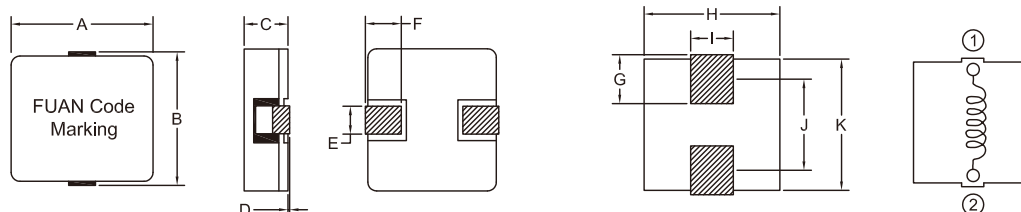
Part Number	Inductance [uH]±20%	DCR[mΩ]		Saturation Current[A] Typical	Temperature Current[A] Typical	Part Number	Inductance [uH]±20%	DCR[mΩ]		Saturation Current[A] Typical	Temperature Current[A] Typical
		Typical	Max					Typical	Max		
FACSB1030-R20M	0.20	0.82	0.98	50.0	22.0	FACSB1040-R15M	0.15	0.58	0.60	60.0	25.0
FACSB1030-R33M	0.33	2.17	2.50	36.0	18.0	FACSB1040-R30M	0.30	1.10	1.20	50.0	22.0
FACSB1030-R56M	0.56	2.17	2.50	30.0	18.0	FACSB1040-R56M	0.56	1.60	1.80	30.0	20.0
FACSB1030-R68M	0.68	4.79	5.40	23.0	14.0	FACSB1040-1R0M	1.00	3.30	3.60	20.0	16.0
FACSB1030-1R0M	1.00	4.79	5.40	21.0	14.0	FACSB1040-1R5M	1.50	5.30	5.80	17.0	14.0
FACSB1030-1R2M	1.20	6.60	7.40	20.0	12.0	FACSB1040-2R0M	2.00	7.30	8.00	13.0	11.0
FACSB1030-1R5M	1.50	6.60	7.40	18.0	12.0	FACSB1040-2R8M	2.80	10.6	11.7	11.0	9.50
FACSB1030-2R2M	2.20	11.4	12.5	15.0	9.00	FACSB1040-4R3M	4.30	14.1	15.5	8.00	8.00
						FACSB1040-5R6M	5.60	20.6	22.7	7.50	6.70

TEST CONDITIONS

1. All data is tested based on 25°C 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 $\Delta T 50$ [Ta=25°C].
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
FACSB1030	10.2±0.5	10.5±1.0	2.8±0.3	0.0-0.2	2.25±0.75	2.5±1.0	3.5 REF	10.7 REF	5.0 REF	8.0 REF	10.7 REF
FACSB1040	10.2±0.5	10.5±1.0	4.0±0.3	0.0-0.2	2.25±0.75	2.5±1.0	3.5 REF	10.7 REF	5.0 REF	8.0 REF	10.7 REF