

HIGH CURRENT POWER INDUCTOR FACSCI1045,1050 SERIES



FEATURES:

Magnetic shielding structure, excellent resistance to electro magnetic interference
 Assemblage design, sturdy structure
 Small volume, high current, low magnetic loss, low ESR small parasitic capacitance
 Temperature rise current and saturation current is less influenced by environment
 Operating temperature: -40°C ~ +125°C
 [Including coils temperature rise]

PRODUCT IDENTIFICATION:

C S C I 1045 - R 22 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
		Typical	Max		
FACSCI1045-R22M	0.22	1.60	2.20	39.6	18.0
FACSCI1045-2R2M	2.20	6.90	8.00	11.0	9.00
FACSCI1045-2R5M	2.50	6.90	8.00	8.00	9.00

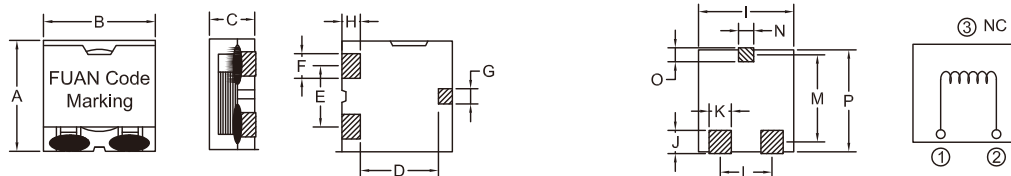
Part Number	Inductance [uH]±20%	DCR(mΩ)		Saturation Current(A) Typical	Temperature Current(A) Typical
		Typical	Max		
FACSCI1050-1R5M	1.50	8.20	9.00	18.0	10.0
FACSCI1050-2R2M	2.20	7.30	8.00	11.0	8.50

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 20% of its initial value.
4. Temperature rise current : the actual value of DC current when the temperature rise is ΔT_{40} [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
FACSCI1045	10.5 Max	10.0±0.4	4.5±0.3	6.7 REF	5.6 REF	2.0-2.6	1.5 REF	2.0 REF	10.4 REF	2.5 REF
FACSCI1050	10.5 Max	10.0±0.4	5.0±0.3	6.7 REF	5.6 REF	2.0-2.6	1.5 REF	2.0 REF	10.4 REF	2.5 REF

Part number	K	L	M	N	O	P				
FACSCI1045	3.0 REF	5.6 REF	8.85 REF	2.0 REF	1.8 REF	10.5 REF				
FACSCI1050	3.0 REF	5.6 REF	8.85 REF	2.0 REF	1.8 REF	10.5 REF				