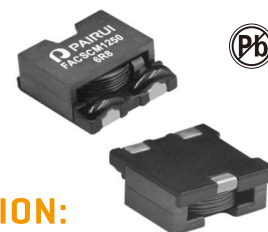


HIGH CURRENT POWER INDUCTOR FACSCM1250,1256 SERIES



FEATURES :

High inductance, high current, low magnetic loss
low ESR, small parasitic capacitance
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:

$\frac{CSCM}{a} \frac{1250}{b} - \frac{2R2}{c} \frac{M}{d}$

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		
FACSCM1250-R47M	0.47	0.85	0.96	31.0	26.5
FACSCM1250-1R0M	1.00	1.68	1.90	21.0	19.0
FACSCM1250-1R5M	1.50	2.74	3.20	18.0	15.0
FACSCM1250-2R2M	2.20	3.40	3.80	14.0	13.0
FACSCM1250-2R7M	2.70	6.30	7.20	14.0	10.0
FACSCM1250-3R3M	3.30	6.30	7.20	12.0	10.0
FACSCM1250-4R0M	4.00	6.30	7.20	11.0	10.0
FACSCM1250-6R8M	6.80	12.5	14.5	8.00	7.00

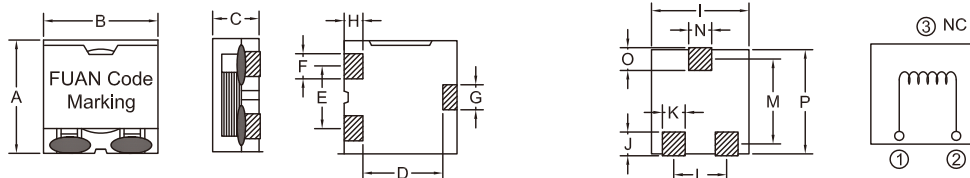
Part Number	Inductance [uH]±20%	DCR[mΩ]		Saturation Current[A] Typical	Temperature Current[A] Typical
		Typical	Max		
FACSCM1256-R33M	0.33	0.90	1.08	40.0	27.0
FACSCM1256-R80M	0.80	0.90	1.08	23.0	27.0
FACSCM1256-1R8M	1.80	4.10	4.50	20.0	12.0
FACSCM1256-4R0M	4.00	6.60	7.80	13.0	10.0
FACSCM1256-4R7M	4.70	6.00	7.00	11.0	10.0
FACSCM1256-5R6M	5.60	9.10	10.0	11.0	8.00
FACSCM1256-100M	10.0	10.2	11.7	4.00	7.00

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 $\Delta T 40$ ($T_a=25^\circ\text{C}$).
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
FACSCM1250	13.5 Max	12.5±0.4	5.0±0.3	9.0 REF	6.9 REF	2.0-2.6	2.6 REF	2.0 REF	12.9 REF	3.0 REF
FACSCM1256	13.5 Max	12.5±0.4	5.6±0.3	9.0 REF	6.9 REF	2.0-2.6	2.6 REF	2.0 REF	12.9 REF	3.0 REF

Part number	K	L	M	N	O	P				
FACSCM1250	3.0 REF	6.9 REF	11.1 REF	3.0 REF	2.8 REF	13.5 REF				
FACSCM1256	3.0 REF	6.9 REF	11.1 REF	3.0 REF	2.8 REF	13.5 REF				