

HIGH CURRENT POWER INDUCTOR FACSI1060,1580 SERIES



FEATURES:

Magnetic shielding structure, excellent resistance to electromagnetic 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:

CSI 1060 - R56 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

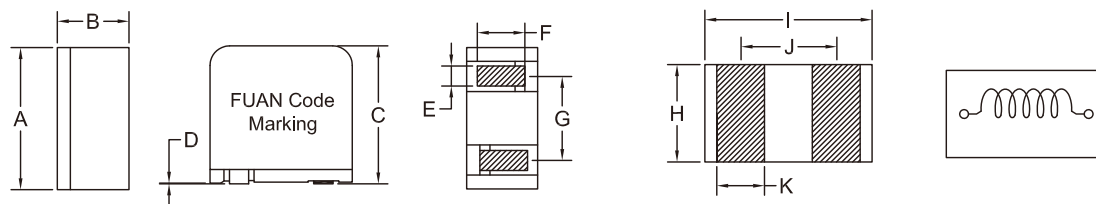
Part Number	Inductance [uH]±20%	DCR(mΩ)		Saturation Current(A) Typical	Temperature Current(A) Typical
		Typical	Max		
FACSI1060-R56M	0.56	1.03	1.10	45.0	25.0
FACSI1580-R47M	0.47	0.62	0.75	120	40
FACSI1580-R68M	0.68	0.62	0.75	120	40
FACSI1580-1R0M	1.00	0.96	1.30	80	37

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
FACSI1060	10.0±0.5	5.7±0.3	12.0 Max	0.0-0.2	2.0±0.3	3.8±0.7	6.0±0.5	6.0 REF	10.5 REF	6.0±0.5	3.0 REF
FACSI1580	16.0±0.3	8.0±0.3	15.9 Max	0.0-0.2	2.7±0.3	4.0 Min	9.5±0.5	8.0 REF	16.3 REF	9.5±0.5	4.0 REF