FAUKU
高芯电子

GNR6045S-xxx-MT

SMD Power Inductors

RoHS compliant

Description

- Low profile construction and miniature size.
- Magnetic shielded construction.
- High current saturation.
- Operating temperature:-40℃~+125℃.
- RoHS compliant



Applications

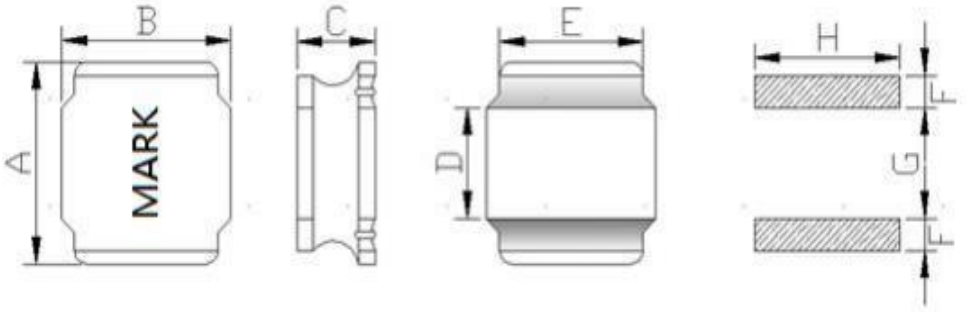
- For small DC/DC converter(HDD,DVC,DSC,PDA,LCD display etc.).
- Car navigation systems,telecom base stations.
- VR,AR,LED lighting.

Product Identification

GNR	6045S	xxx	M	T
①	②	③	④	

① Series name
② Dimensions
③ Inductance Value
④ Inductance Tolerance (M= ± 20%)

Dimensions-mm



Series	A	B	C	D	E	F	G	I
GNR6045S	6.0±0.3	6.0±0.3	4.5 Max	2.9 Ref	5.7 Ref	1.7 Ref	2.8 Ref	5.7 Ref

Electrical Characteristics

Part Number	Inductance	DC Resistance		Saturation Current	Heating Rating Current
	L（uH）	DCR(mΩ)		A	A
	±20 %-100kHz,0.25V	Typ	Max	Typ	Typ
GNR6045S-1R0-NT	1.0	20.0	24.0	9.85	7.80
GNR6045S-2R2-NT	2.2	28.0	32.0	6.75	5.00
GNR6045S-3R3-MT	3.3	30.0	34.0	6.10	4.70
GNR6045S-4R7-MT	4.7	37.0	45.0	4.97	4.00
GNR6045S-6R8-MT	6.8	50.0	61.0	3.90	3.50
GNR6045S-100-MT	10.0	90.0	103.0	3.20	2.80
GNR6045S-101-MT	100.0	350.0	563.0	0.95	0.80
GNR6045S-150-MT	15.0	100.0	135.0	2.50	2.00
GNR6045S-220-MT	22.0	120.0	151.0	2.05	1.80
GNR6045S-330-MT	33.0	160.0	200.0	1.65	1.40
GNR6045S-470-MT	47.0	180.0	310.0	1.40	1.20
GNR6045S-680-MT	68.0	250.0	376.0	1.20	1.10

Notes:

1. All test data is referenced to 25 °C ambient
2. Operating temperature range - 40°C to + 125 °C
3. Idc(A):DC current (A) that will cause an approximate ΔT of 40 °C
4. Isat(A):DC current (A) that will cause L0 to drop approximately30 %
5. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.