FAUKU
高芯电子

GSM1040-xxx-M

High Current, Power Inductors

Description

- Halogen Free
- 125°C maximum total temperature operation
- Magnetically shielded, low EMI
- High current carrying capacity, Low core losses
- Frequency range up to 5MHz
- RoHS compliant

Applications

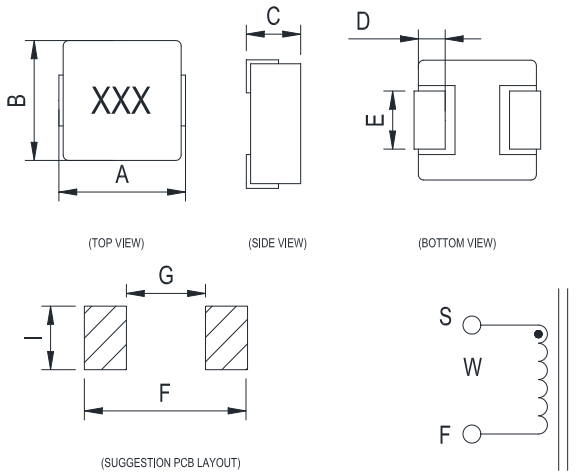
- Voltage Regulator Module (VRM)
- Multi-phase regulators
- Point-of-load modules
- Smart phone POL modules
- SSD modules
- Notebook regulators
- Battery power systems
- Graphics cards
- Data networking and storage systems

Product Identification

GSM	1040	xxx	M
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
GSM1040	11.5 Max	10.5MAX	4.0 Max	2.3±0.5	3.0±0.5	13.5 Typ	5.4 Typ	4.0 Typ

Electrical Characteristics

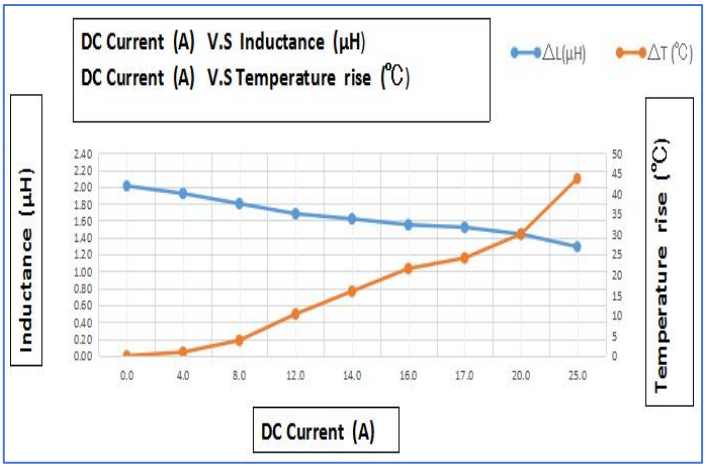
Part Number	Inductance	DC Resistance	Saturation Current	Heating Rating Current
	L（uH）	DCR(mΩ)	A	A
	±20 %-1MHz,1V	Max	Typ	Typ
GSM1040-2R2-M	2.2	7.6	17	14
GSM1040-4R7-M	4.7	15.5	13	9
GSM1040-6R8-M	6.8	23	11	7.8
GSM1040-100-M	10	30	8.6	7.8
GSM1040-150-M	15	45	7	5
GSM1040-220-M	22	66	4.4	4.2
GSM1040-330-M	33	92	5	4
GSM1040-470-M	47	145	4	3

Notes:

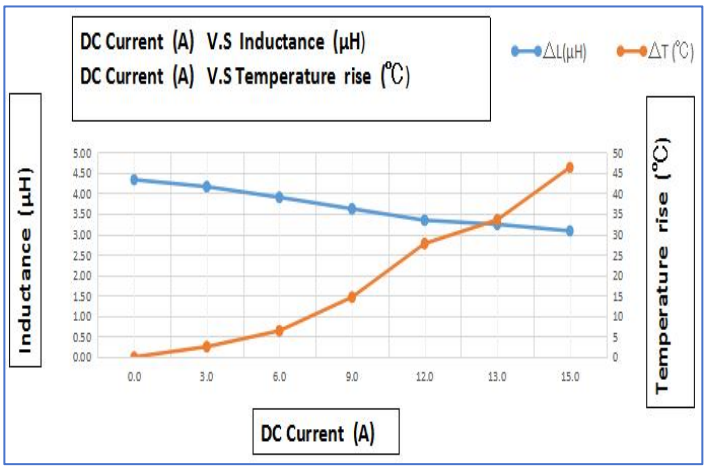
1. All test data is referenced to 25 °C ambient
2. Operating temperature range - 55 °C to + 125 °C
3. Idc(A):DC current (A) that will cause an approximate ΔT of 40 °C
4. Isat(A):DC current (A) that will cause L0 to drop approximately30 %
5. The part temperature (ambient + temp rise) should not exceed 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.
6. Absolute maximum voltage 30VDC

Temperature rise curve graph

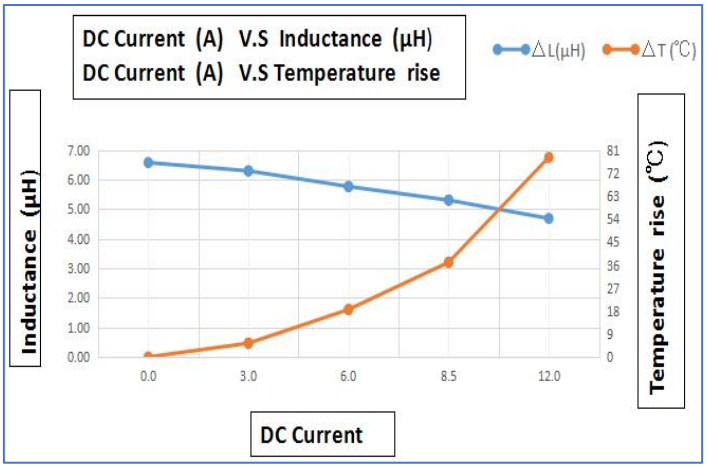
GSM1040-2R2-M



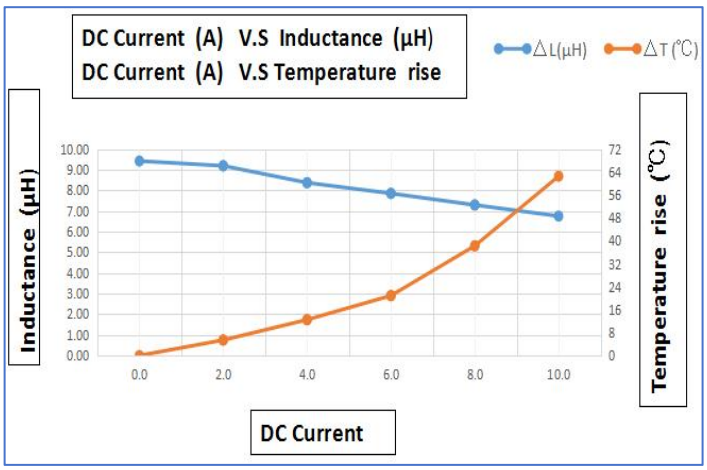
GSM1040-4R7-M



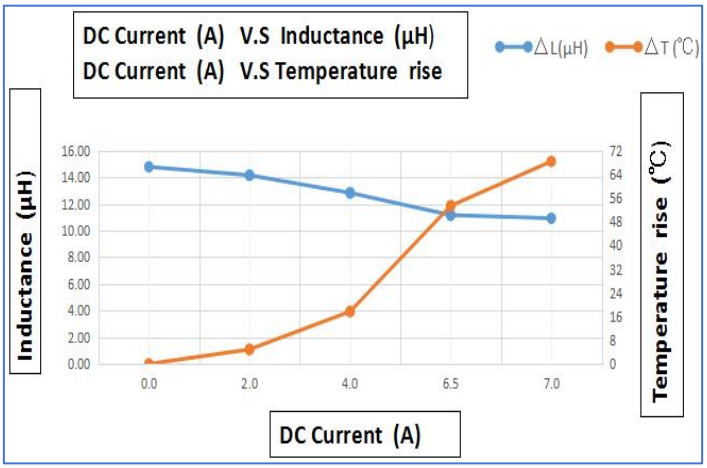
GSM1040-6R8-M



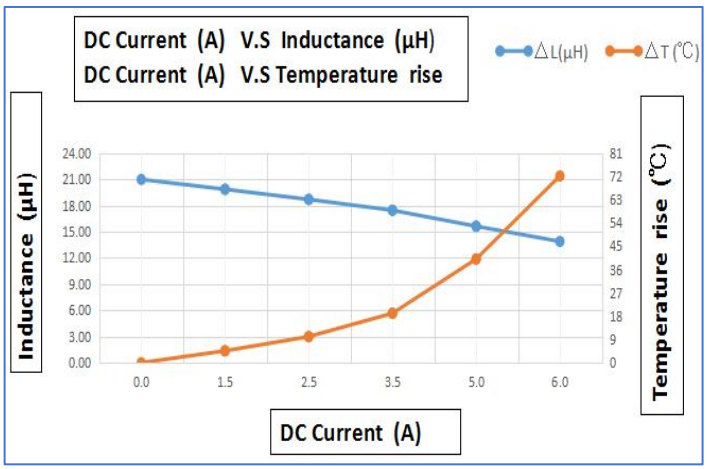
GSM1040-100-M



GSM1040-150-M

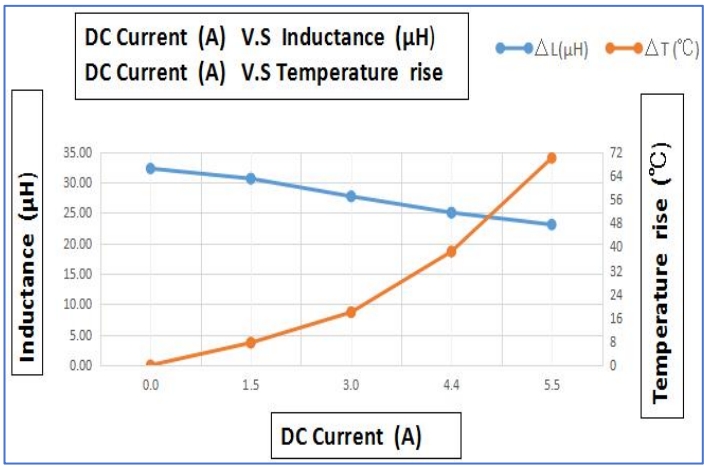


GSM1040-220-M



Temperature rise curve graph

GSM1040-330-M



GSM1040-470-M