

Description

- Has excellent high anti saturation performance;
- Adopting a magnetic shielding structure;
- Low DC resistance, capable of withstanding high current
- Compliant with Q/ZHF0111-2003 standard



Applications

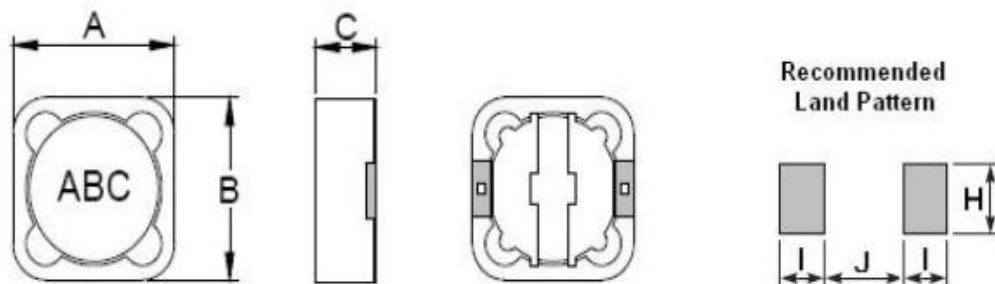
- Can be used as energy storage inductors and filtering inductors in various DC-DC converters and chargers.

Product Identification

<u>GXDR</u>	<u>1207</u>	<u>xxx</u>	<u>M(N)</u>	<u>I</u>
①	②	③	④	

- ① Series name
- ② Dimensions
- ③ Inductance Value
- ④ Inductance Tolerance (M= $\pm 20\%$; N= $\pm 30\%$)

Dimensions-mm



Series	A max	B max	C max	I typ	J typ	H typ
GXDR1207	12.5	12.5	8.0	2.2	7.4	4.9

Electrical Characteristics

Part Number	Inductance	DC Resistance	Saturation Current	Heating Rating Current
	L (uH)	DCR(mΩ)	A	A
	100kHz,0.3V	Max	Max	Max
GXDR1207-1R0-NT	1 ± 30%	14	25	12
GXDR1207-2R2-NT	2.2 ± 30%	17	21	9
GXDR1207-3R3-NT	3.3 ± 30%	20	17	8
GXDR1207-4R7-NT	4.7 ± 30%	22	14	6.8
GXDR1207-6R8-NT	6.8 ± 30%	25	11	6.6
GXDR1207-100-MT	10 ± 20%	27	9	5.4
GXDR1207-150-MT	15 ± 20%	35	8	4.7
GXDR1207-220-MT	22 ± 20%	57	6	3.6
GXDR1207-330-MT	33 ± 20%	65	5	3
GXDR1207-470-MT	47 ± 20%	90	4	2.5
GXDR1207-680-MT	68 ± 20%	110	3.5	2.1
GXDR1207-101-MT	100 ± 20%	200	3	1.7
GXDR1207-151-MT	150 ± 20%	300	2.3	1.4
GXDR1207-221-MT	220 ± 20%	400	2	1.1
GXDR1207-331-MT	330 ± 20%	550	1.5	0.95
GXDR1207-102-MT	1000 ± 20%	1820	0.8	0.55

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 approximately 30 %
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.