

GMPI SERIES

Multilayer Ferrite Chip Inductors for Power Line Choke

■ FEATURES:

The GMPI series is magnetically shielded chip coils based on multilayer process.

New magnetic material is developed to get excellent direct current characteristics. This series has larger rated current than conventional GMLI series.

Low DC resistance is realized.

Low profile. (h=0.3~1.2mm)

Lead-free product.

■ APPLICATIONS

GMPI series is DC-DC converts and power modules used for the follow equipments.

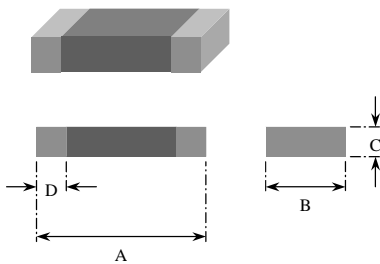
- Mobile Phone
- PC/ Notebook
- HDD
- DSC
- DVC
- PDA
- Digital camera
- DVD

■ PRODUCT IDENTIFICATION

①		②		③	④
GMPI	-	322507	-	4R7	N

- ① Product Code
- ② Dimensions (in mm)
- ③ Inductance Code
- ④ Tolerance Code : N=±30% M=±20% K=±10%

■ PRODUCT DIMENSION



NOTE: Dimensions in mm

PRODUCT NO.	A	B	C	D
GMPI-322512	3.2±0.20	2.5±0.20	1.2MAX	0.5±0.30
GMPI-322510	3.2±0.20	2.5±0.20	1.0MAX	0.5±0.30
GMPI-322507	3.2±0.20	2.5±0.20	0.7MAX	0.5±0.30
GMPI-321608	3.2±0.20	1.6±0.20	0.9MAX	0.5±0.30
GMPI-252012	2.5±0.20	2.0±0.20	1.2MAX	0.5±0.30
GMPI-252010	2.5±0.20	2.0±0.20	1.0MAX	0.5±0.30
GMPI-252005	2.5±0.20	2.0±0.20	0.5MAX	0.5±0.30
GMPI-201610	2.0±0.20	1.6±0.20	1.0MAX	0.5±0.30
GMPI-201205	2.0±0.20	1.2±0.20	0.55 MAX	0.5±0.30
GMPI-160803	1.6±0.20	0.8±0.20	0.3 MAX	0.4±0.30
GMPI-100803	1.0±0.20	0.8±0.20	0.3 MAX	0.3±0.20

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■ PRODUCT SPECIFICATIONS

Part Number	Inductance (μ H)	Test Frequency (MHz)	SRF Min. (MHz)	DC Resistance (Ω)	Rated Current Max. (mA)
GMPI-322512-R11	0.11	5	175	0.016MAX	6000
GMPI-322510-R82	0.82	5	80	0.04 \pm 30%	1200
GMPI-322510-1R5	1.5	5	60	0.06 \pm 30%	1000
GMPI-322510-2R2	2.2	5	45	0.08 \pm 30%	800
GMPI-322510-2R7	2.7	5	40	0.09 \pm 30%	800
GMPI-322510-3R9	3.9	5	35	0.11 \pm 30%	600
GMPI-322510-4R7	4.7	5	30	0.12 \pm 30%	500
GMPI-322510-6R8	6.8	5	20	0.15 \pm 30%	400
GMPI-322507-R45	0.45	5	70	0.06MAX	2000
GMPI-322507-R82	0.82	5	80	0.10MAX	1600
GMPI-322507-1R0	1.00	5	120	0.12MAX	1300
GMPI-321608-1R0	1.0	5	70	0.11 \pm 30%	1000
GMPI-321608-1R5	1.5	5	70	0.11 \pm 30%	800
GMPI-321608-4R7	4.7	5	35	0.25 \pm 30%	700
GMPI-252012-R68	0.68	5	100	0.06 \pm 30%	1400
GMPI-252012-1R0	1.0	5	90	0.09 \pm 30%	1300
GMPI-252012-1R2	1.2	5	80	0.09 \pm 30%	1200
GMPI-252012-1R5	1.5	5	70	0.11 \pm 30%	1200
GMPI-252012-2R2	2.2	5	60	0.13 \pm 30%	1100
GMPI-252012-2R7	2.7	5	50	0.15 \pm 30%	1100
GMPI-252010-R68	0.68	5	100	0.06 \pm 30%	1400
GMPI-252010-1R0	1.0	5	90	0.09 \pm 30%	1300
GMPI-252010-1R2	1.2	5	80	0.09 \pm 30%	1200
GMPI-252010-1R5	1.5	5	70	0.11 \pm 30%	1200
GMPI-252010-2R2	2.2	5	60	0.13 \pm 30%	1100
GMPI-252010-2R7	2.7	5	50	0.15 \pm 30%	1000
GMPI-252010-4R7	4.7	5	40	0.18 \pm 30%	600
GMPI-252005-R60	0.6	5	100	0.11 \pm 30%	1500
GMPI-201610-1R2	1.2	5	100	0.11 \pm 30%	1100
GMPI-201610-2R2	2.2	5	90	0.11 \pm 30%	1100
GMPI-201610-3R0	3.0	5	80	0.13 \pm 30%	1000
GMPI-201610-4R7	4.7	5	70	0.16 \pm 30%	900

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Part Number	Inductance (μ H)	Test Frequency (MHz)	SRF Min. (MHz)	DC Resistance (Ω)	Rated Current Max. (mA)
GMPI-201205-R40	0.4	5	150	0.19MAX	1300
GMPI-201205-R68	0.68	5	150	0.15 \pm 30%	1200
GMPI-201205-1R0	1.0	5	90	0.12 \pm 30%	800
GMPI-160803-R40	0.4	5	70	0.23 \pm 30%	350
GMPI-160803-R25	0.25	5	250	0.17 \pm 30%	500
GMPI-100803-R40	0.4	5	230	0.17 \pm 30%	250

REMARK:

- Inductance test condition: Agilent 4291 RF Impedance Analyzer with test fixture 16192A and osc. level = 1mA .
- Temperature rise should be less than 40°C and inductance change should be less than \pm 50% when rated current is applied.