



FEATURES

- Shielded structure
- Low DCR with high efficiency
- Large current with small size
- High reliability
- AEC-Q200 qualified
- RoHS compliant

APPLICATIONS

- DC-DC power supply and noise filter circuits
- Tablet, notebook PC, workstation and server etc
- Telecom for basestation etc
- LED lighting
- Automotive

ELECTRICAL CHARACTERISTICS

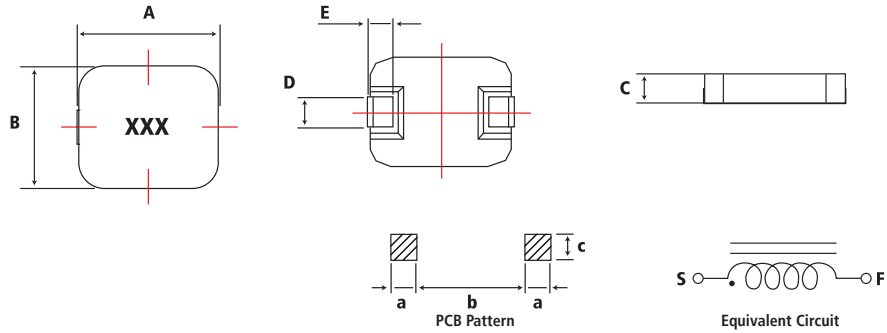
PART NO.	INDUCTANCE ($\mu\text{H} \pm 20\%$)	DCR ($\text{m}\Omega$) MAX	SATURATION CURRENT ⁴ (A) MAX	RMS CURRENT ³ (A) MAX
MGV1207R10M-10	0.10	0.5	120.0	60.0
MGV1207R15M-10	0.15	0.6	118.0	55.0
MGV1207R22M-10	0.22	0.7	112.0	53.0
MGV1207R30M-10	0.30	0.8	72.0	48.0
MGV1207R33M-10	0.33	0.9	65.0	46.0
MGV1207R40M-10	0.40	1.0	64.0	44.0
MGV1207R47M-10	0.47	1.2	63.0	41.0
MGV1207R56M-10	0.56	1.4	62.0	37.0
MGV1207R68M-10	0.68	1.6	60.0	35.0
MGV1207R82M-10	0.82	1.9	50.0	33.0
MGV12071R0M-10	1.00	2.0	49.0	32.0
MGV12071R2M-10	1.20	2.5	48.0	30.0
MGV12071R5M-10	1.50	3.0	45.0	27.0
MGV12071R8M-10	1.80	3.2	41.0	24.0
MGV12072R2M-10	2.20	4.2	40.0	22.0
MGV12073R3M-10	3.30	6.8	35.0	18.0
MGV12074R7M-10	4.70	8.7	32.0	13.5
MGV12075R6M-10	5.60	10.0	32.0	13.5
MGV12076R8M-10	6.80	14.0	16.5	11.5
MGV12078R2M-10	8.20	15.5	16.0	10.5
MGV1207100M-10	10.00	17.2	15.5	10.0

Remark:

- 1 Tolerance: M: $\pm 20\%$
- 2 Inductance tested at 100KHz, 0.25V
- 3 RMS Current is defined based on temperature rise approximate 40°C without core loss.(ambient temperature 25 \pm 5°C)
- 4 Saturation Current is the DC current at which the inductance drops off approximately 25% from its value without current. (ambient temperature 25 \pm 5°C)
5. Operating temperature range:-40°C--+125°C (including self-temperature rise)
6. Storage temperature range (packaging conditions): 25 \pm 5°C and RH 70%(MAX).

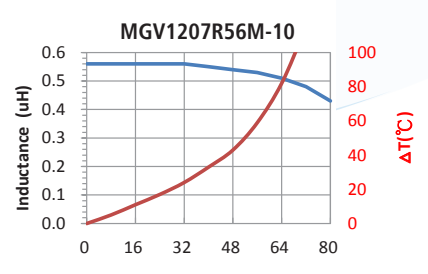
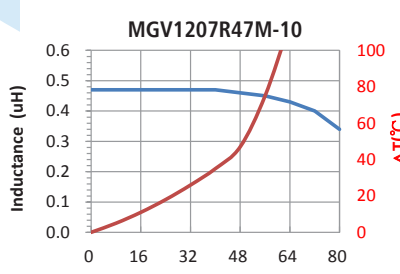
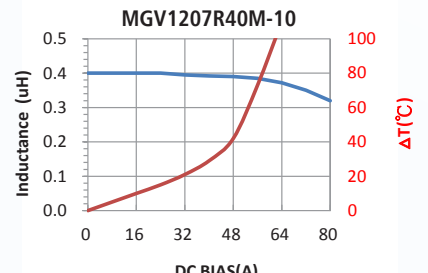
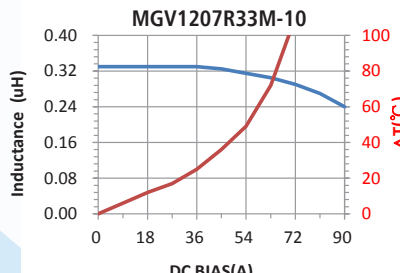
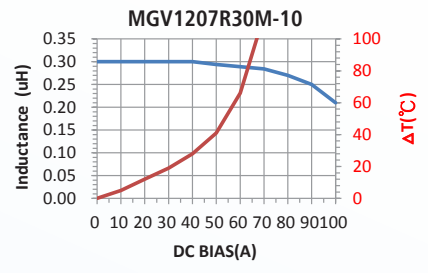
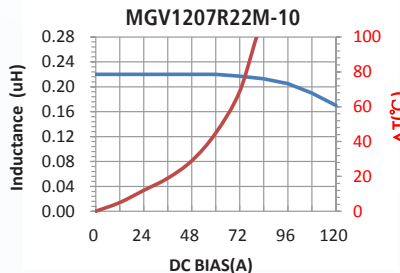
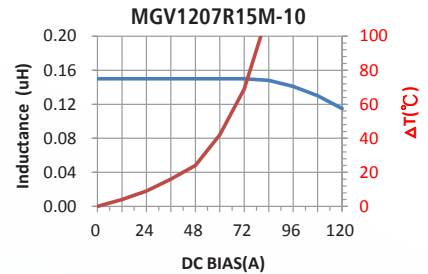
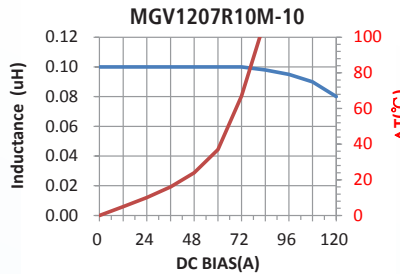
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Europe: +49.0.8031.2460.0
Asia: +86.755.2714.1166

SHAPES AND DIMENSIONS Unit: mm

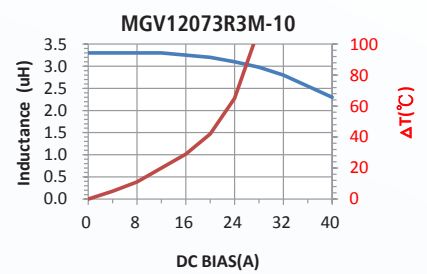
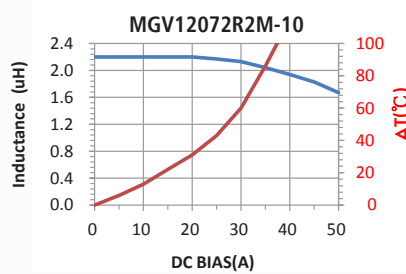
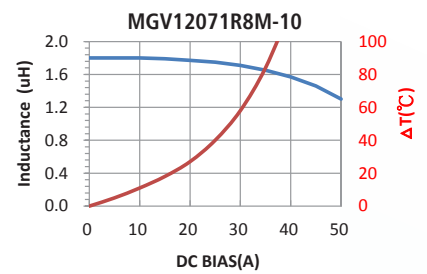
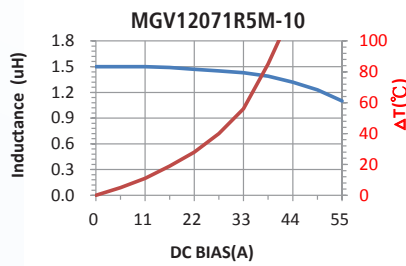
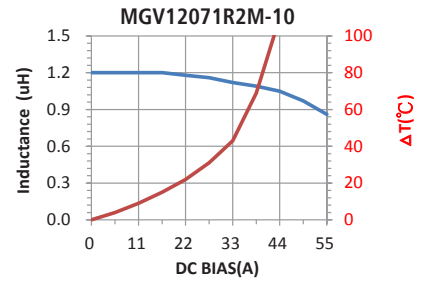
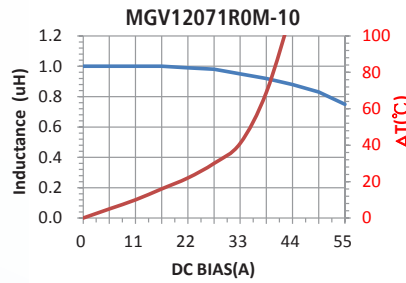
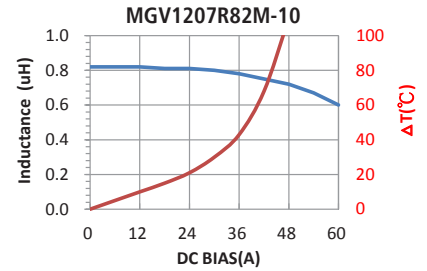
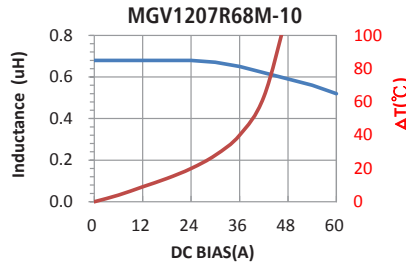


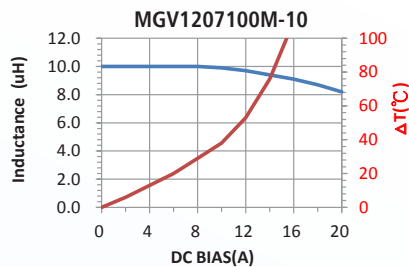
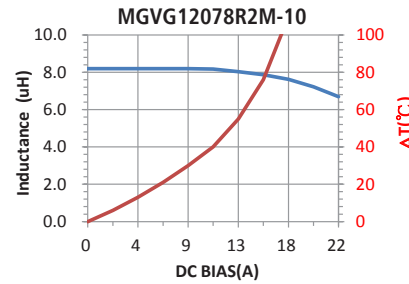
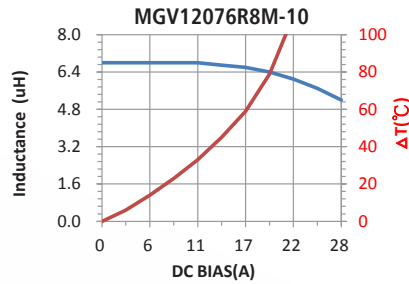
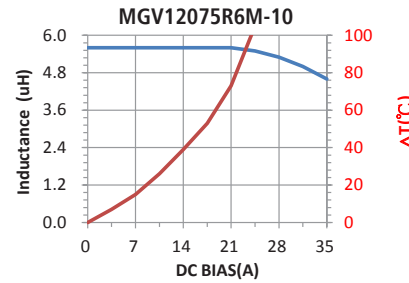
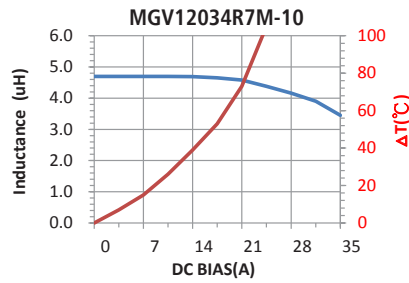
A	B	C	D	E	a	b	c
13.5±0.5	12.6±0.3	6.2±0.3	3.6±0.5	2.3±0.5	2.9 ref	7.9 ref	5.0 ref

TYPICAL ELECTRICAL CHARACTERISTICS

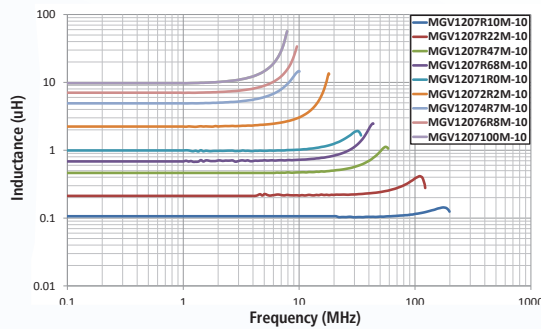


TYPICAL ELECTRICAL CHARACTERISTICS

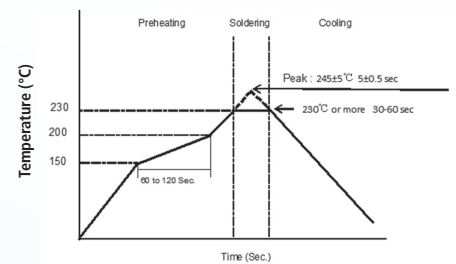




INDUCTANCE VS FREQUENCY CURVE



TEMPERATURE PROFILE OF REFLOW SOLDERING



ORDERING INFORMATION

PART NUMBER EXAMPLE

M
G
V
1
2
0
7
1
R
5
M
-
1
0

Product series code Part size code Inductance value code Tolerance % PB free code
 (i.e. 1R5: 1.5µH) (i.e. M: ±20%) (i.e. 10: PB free)

PACKAGING INFORMATION

- Standard Tape and Reel Quantity (PCS) = 500
- Reel Size = 13 inches

SIP-DS-MGV 1207 0713

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