



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
- Automotive
- LED lighting

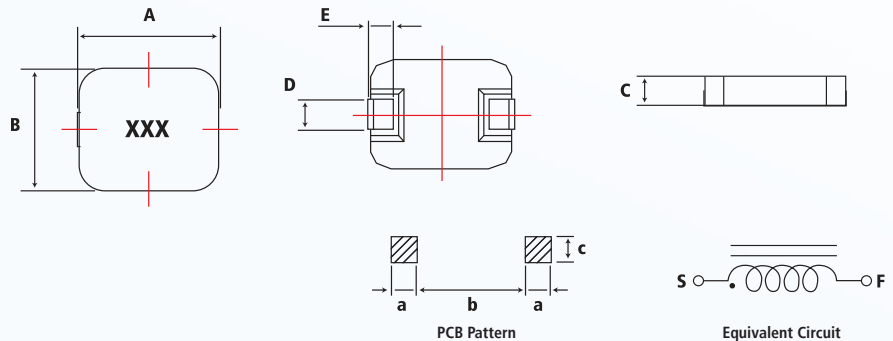
ELECTRICAL CHARACTERISTICS

PART NO.	INDUCTANCE ($\mu\text{H} \pm 20\%$)	DCR ($\text{m}\Omega$) MAX	SATURATION CURRENT ⁴ (A) MAX	RMS CURRENT ³ (A) MAX
MGV0602R10M-10	0.10	3.5	40.0	18.0
MGV0602R15M-10	0.15	5.2	38.0	15.0
MGV0602R22M-10	0.22	5.7	26.0	14.0
MGV0602R33M-10	0.33	7.0	18.0	12.0
MGV0602R47M-10	0.47	9.3	18.0	11.0
MGV0602R68M-10	0.68	13.9	17.0	9.0
MGV0602R82M-10	0.82	15.9	17.0	8.0
MGV0602R10M-10	1.00	18.3	14.0	7.0
MGV0602R15M-10	1.50	34.0	13.0	4.0
MGV0602R22M-10	2.20	46.0	11.5	3.8
MGV0602R33M-10	3.30	60.1	10.0	3.3
MGV0602R47M-10	4.70	78.0	8.0	3.0

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 drop off approximate 25% from its value without current. (ambient temperature 25 \pm 5°C)
- 5 Operate temperature range:-40°C~+125°C (including self-temperature rise)
- 6 Storage temperature range: (packaging conditions): 25 \pm 5°C and RH 70%(MAX.)

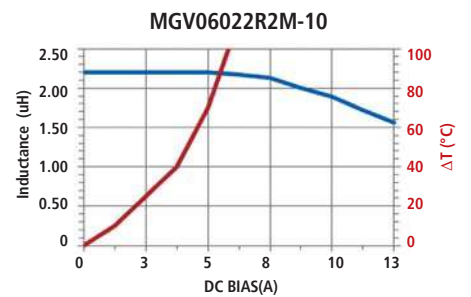
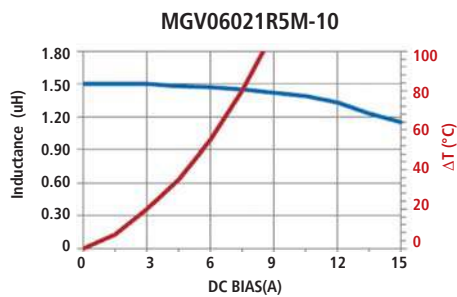
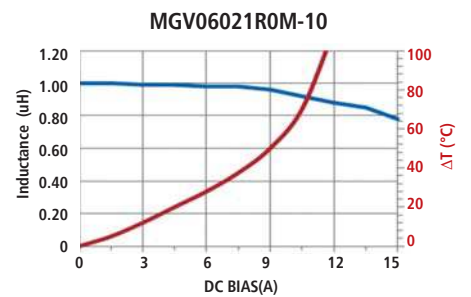
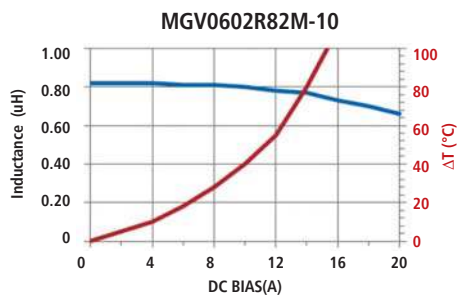
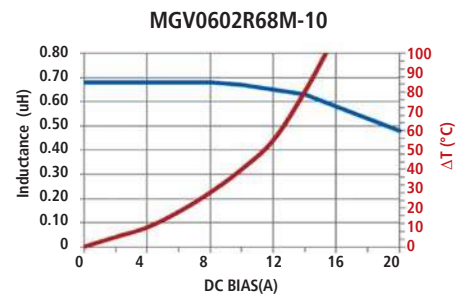
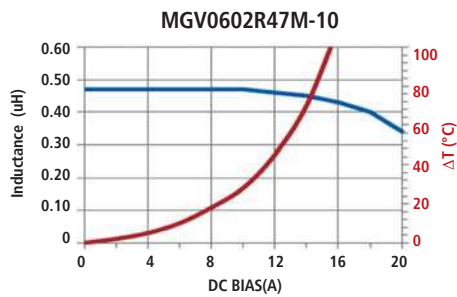
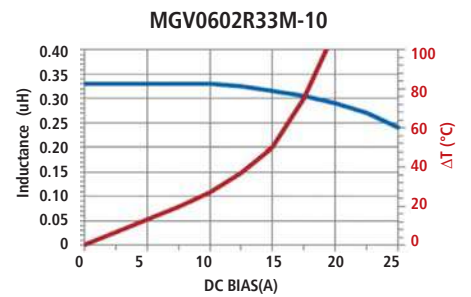
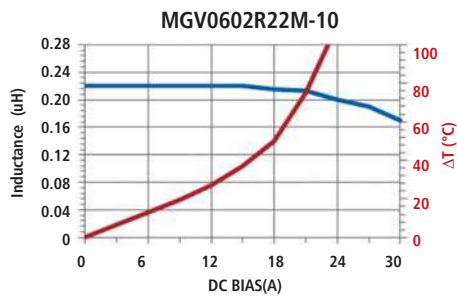
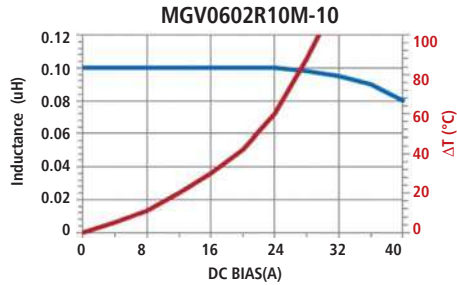
SHAPES AND DIMENSIONS Unit: mm



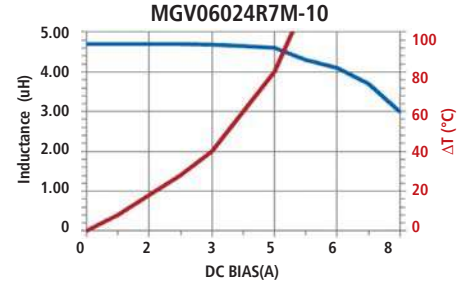
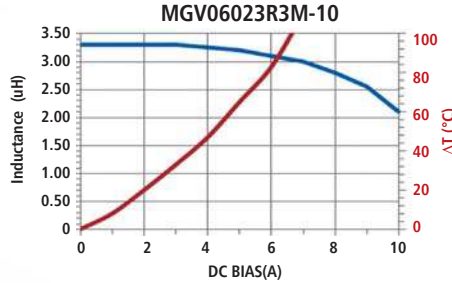
A	B	C	D	E	a	b	c
7.3 \pm 0.5	6.7 \pm 0.3	2.0 \pm 0.3	2.9 \pm 0.3	1.6 \pm 0.5	2.5 ref	3.7 ref	3.5 ref

USA: +1.866.928.8181
Europe: +49.0.8031.2460.0
Asia: +86.755.2714.1166

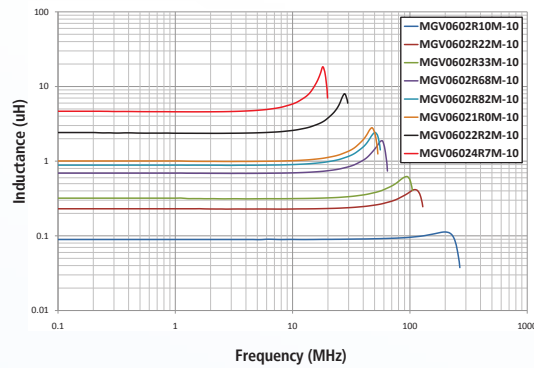
TYPICAL ELECTRICAL CHARACTERISTICS



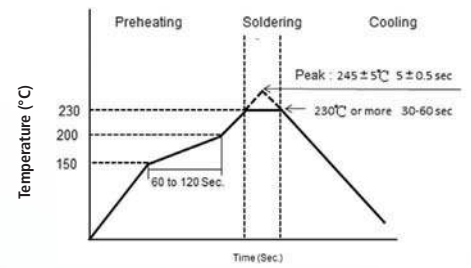
TYPICAL ELECTRICAL CHARACTERISTICS



INDUCTANCE VS FREQUENCY CURVE

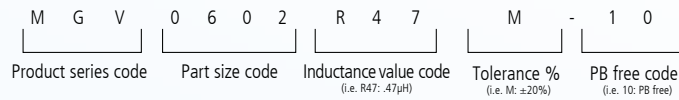


TEMPERATURE PROFILE OF REFLOW SOLDERING.



ORDERING INFORMATION

PART NUMBER EXAMPLE



PACKAGING INFORMATION

- Standard Tape and Reel Quantity (PCS) = 2000
- Reel Size = 13 inches