Smart Technology. Delivered.

MGV0502

SMD Power Inductor Series



FEATURES **ROHS**

- 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

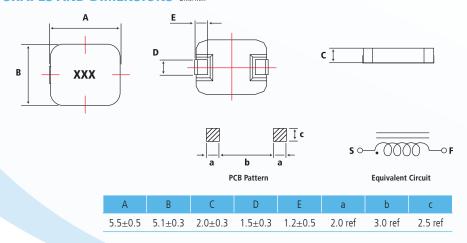
ELECTRICAL CHARACTERISTICS

PART NO.	INDUCTANCE (µH ± 20%)	DCR (mΩ) MAX	SATURATION CURRENT ⁴ (A) MAX	RMS CURRENT ³ (A) MAX
MGV0502R10M-10	0.1	3.90	45.00	17.00
MGV0502R22M-10	0.22	5.20	22.00	15.00
MGV0502R33M-10	0.33	8.20	25.00	12.00
MGV0502R47M-10	0.47	9.40	21.00	11.50
MGV0502R68M-10	0.68	12.40	15.00	10.00
MGV05021R0M-10	1.0	20.00	16.00	7.00
MGV05022R2M-10	2.2	50.10	12.50	4.20
MGV05023R3M-10	3.3	85.50	8.50	3.30
MGV05024R7M-10	4.7	116.60	5.00	2.80

Remark:

- Inductance tested at 100KHz, 0.25V RMS Current is defined based on temperature rise approximate 40°C without core loss.(ambient temperature 25±5°C)
- Saturation Current is the DC current at which the inductance drop off approximate 25% from its value without current. (ambient temperature 25±5°C) Operate temperature range: 40°C~+125°C (including self-temperature rise) Storage temperature range: (packaging conditions): 25±5°C and RH 70%(MAX.)

SHAPES AND DIMENSIONS Unit: mm



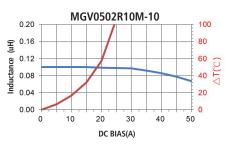
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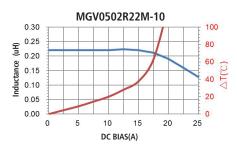


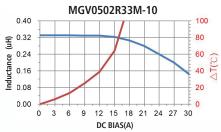
MGV0502

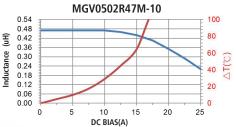
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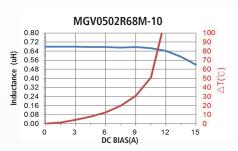
TYPICAL ELECTRICAL CHARACTERISTICS

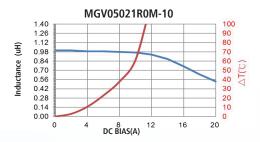










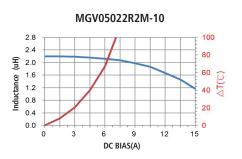


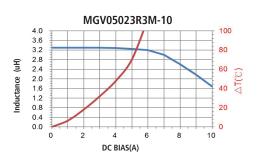


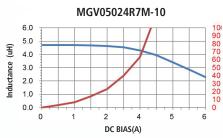
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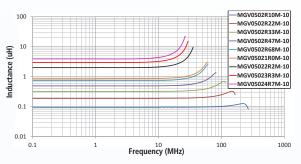
TYPICAL ELECTRICAL CHARACTERISTICS



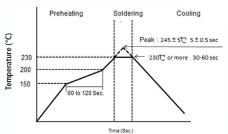




INDUCTANCE VS FREQUENCY CURVE



TEMPERATURE PROFILE OF REFLOW SOLDERING.



ORDERING INFORMATION

PART NUMBER EXAMPLE



PACKAGING INFORMATION

- Standard Tape and Reel Quantity (PCS) = 1500
- Reel Size = 13 inches