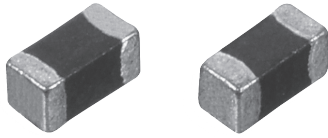




SMD Multilayer Power Inductor

MPI Series





Features

- Low Profile
- High Current
- Magnetically shielded configuration allowing for high density mounting

Application

- DC-DC converters, Power modules, Cellular phones, DSC, PND, DVD, Wireless card and other electronic devices

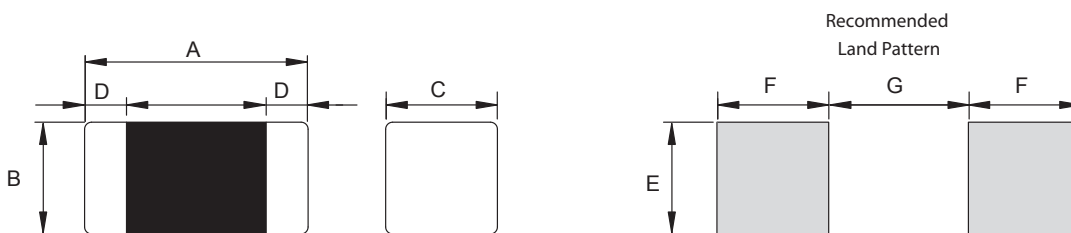
Part Numbering

MPI 160805  - **R47** **M** -  **A**

① ② ③ ④ ⑤ ⑥ ⑦

- 1 Product Group
- 2 Dimension Code
- 3 Type Code
- 4 Inductance Code: R means decimal point
Ex: R47→0.47μH
- 5 Inductance Tolerance M=±20%
- 6 Control Code
- 7 Automobile Code

Shapes and Dimension



Unit: mm

Type	A	B	C	D	E	F	G
MPI160805	1.60±0.15	0.80±0.15	0.50±0.05	0.30±0.20	0.80	0.60	0.80
MPI160808	1.60±0.15	0.80±0.15	0.80±0.15	0.30±0.20	0.80	0.60	0.80
MPI201210	2.00±0.20	1.25±0.20	1.00 (Max.)	0.50±0.30	1.40	0.90	1.20
MPI201610	2.00±0.20	1.60±0.20	1.00 (Max.)	0.50±0.30	2.00	0.80	1.20
MPI252010	2.50±0.20	2.00±0.20	1.00 (Max.)	0.50±0.30	2.20	0.80	1.60
MPI252012	2.50±0.20	2.00±0.20	1.20 (Max.)	0.50±0.30	2.20	0.80	1.60

General Technical Data

Operating Temperature Range	-40°C ~ +125°C
Storage Temperature	40°C Max. , 70%RHMax.

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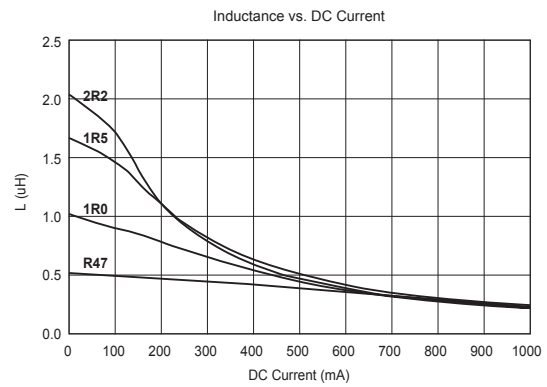
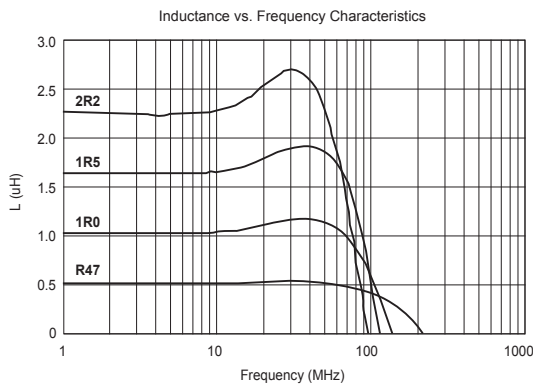
SMD Multilayer Power Inductor

MPI Series

Electrical Characteristics

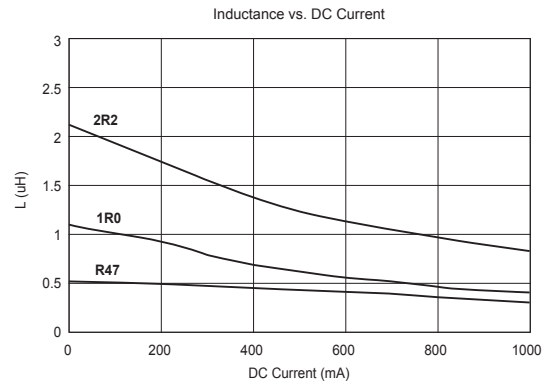
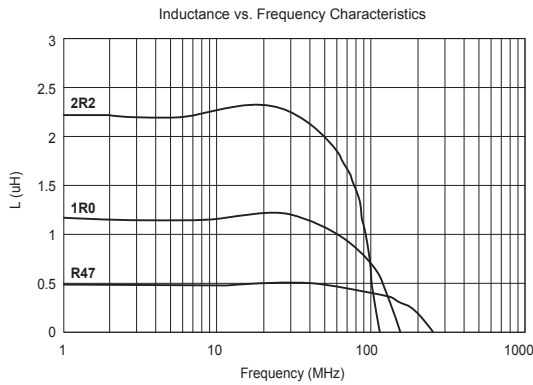
Part Number	Impedance	Test Frequency	DC Resistance (RDC)	Rated Current (IDC) Max.
MPI160805B Series				
MPI160805B-R47M-□	0.47 μ H \pm 20%	3MHz	0.15 Ω \pm 25%	1200mA
MPI160805B-1R0M-□	1.00 μ H \pm 20%	3MHz	0.20 Ω \pm 25%	1200mA
MPI160805B-1R5M-□	1.50 μ H \pm 20%	3MHz	0.22 Ω \pm 25%	1000mA
MPI160805B-2R2M-□	2.20 μ H \pm 20%	3MHz	0.24 Ω \pm 25%	1000mA

• Rated Current for a 40°C rise above 25°C ambient



Part Number	Impedance	Test Frequency	DC Resistance (RDC)	Rated Current (IDC) Max.
MPI160808B Series				
MPI160808B-R47M-□	0.47 μ H \pm 20%	3MHz	0.15 Ω \pm 30%	1100mA
MPI160808B-1R0M-□	1.00 μ H \pm 20%	3MHz	0.20 Ω \pm 30%	950mA
MPI160808B-2R2M-□	2.20 μ H \pm 20%	3MHz	0.30 Ω \pm 30%	750mA

• Rated Current for a 40°C rise above 25°C ambient



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SMD Multilayer Power Inductor

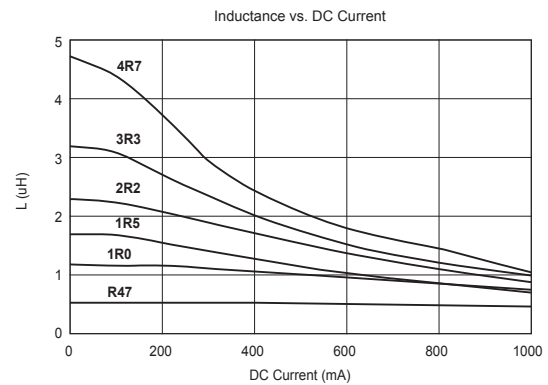
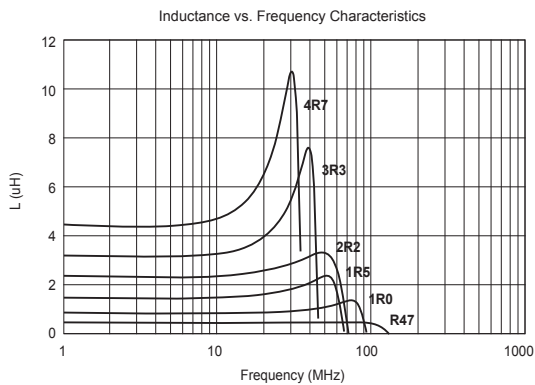
MPI Series

Electrical Characteristics

AEC Q200

Part Number	Impedance	Test Frequency	DC Resistance (RDC)	Rated Current (IDC) Max.
MPI201210F Series				
MPI201210F-R47M-□A	0.47 μ H \pm 20%	3MHz	0.09 Ω \pm 30%	1300mA
MPI201210F-1R0M-□A	1.00 μ H \pm 20%	3MHz	0.12 Ω \pm 30%	1200mA
MPI201210F-1R5M-□A	1.50 μ H \pm 20%	3MHz	0.15 Ω \pm 30%	1100mA
MPI201210F-2R2M-□A	2.20 μ H \pm 20%	3MHz	0.19 Ω \pm 30%	1100mA
MPI201210F-3R3M-□A	3.30 μ H \pm 20%	3MHz	0.24 Ω \pm 30%	800mA
MPI201210F-4R7M-□A	4.70 μ H \pm 20%	3MHz	0.26 Ω \pm 30%	700mA

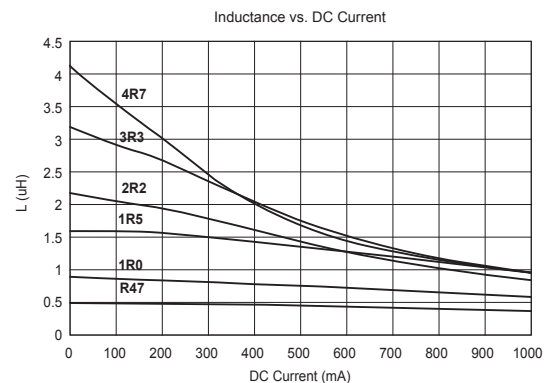
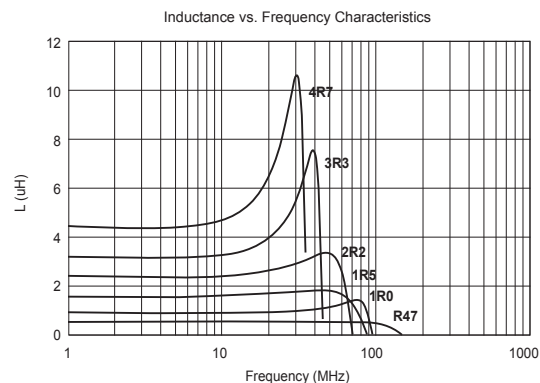
• Rated Current for a 40°C rise above 25°C ambient



AEC Q200

Part Number	Impedance	Test Frequency	DC Resistance (RDC)	Rated Current (IDC) Max.
MPI201610F Series				
MPI201610F-R47M-□A	0.47 μ H \pm 20%	3MHz	0.06 Ω \pm 25%	1600mA
MPI201610F-1R0M-□A	1.00 μ H \pm 20%	3MHz	0.09 Ω \pm 25%	1300mA
MPI201610F-1R5M-□A	1.50 μ H \pm 20%	3MHz	0.11 Ω \pm 25%	1200mA
MPI201610F-2R2M-□A	2.20 μ H \pm 20%	3MHz	0.11 Ω \pm 25%	1200mA
MPI201610F-3R3M-□A	3.30 μ H \pm 20%	3MHz	0.12 Ω \pm 25%	850mA
MPI201610F-4R7M-□A	4.70 μ H \pm 20%	3MHz	0.14 Ω \pm 25%	1100mA

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SMD Multilayer Power Inductor

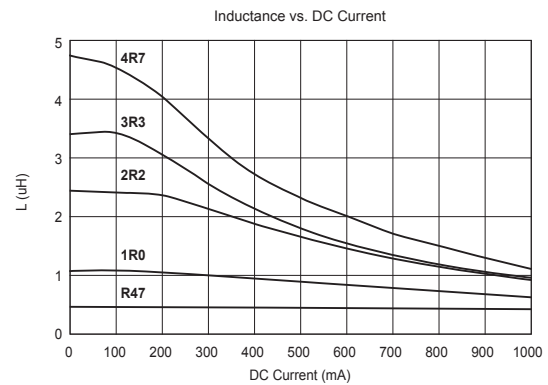
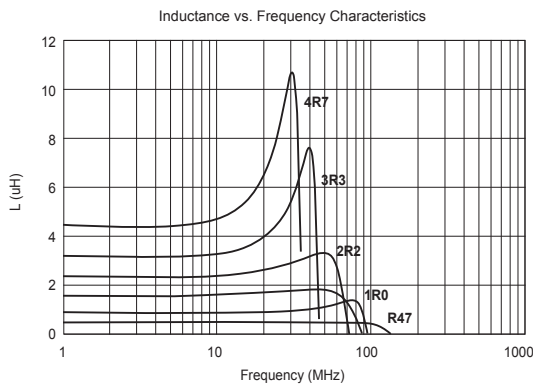
MPI Series

Electrical Characteristics

AEC
Q200

Part Number	Impedance	Test Frequency	DC Resistance (RDC)	Rated Current (IDC) Max.
MPI252010F Series				
MPI252010F-R47M-□A	0.47μH±20%	3MHz	0.04Ω±30%	1800mA
MPI252010F-1R0M-□A	1.00μH±20%	3MHz	0.06Ω±30%	1600mA
MPI252010F-2R2M-□A	2.20μH±20%	3MHz	0.08Ω±30%	1300mA
MPI252010F-3R3M-□A	3.30μH±20%	3MHz	0.10Ω±30%	1200mA
MPI252010F-4R7M-□A	4.70μH±20%	3MHz	0.11Ω±30%	1100mA

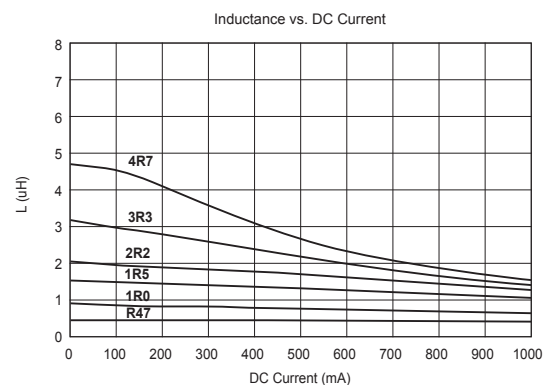
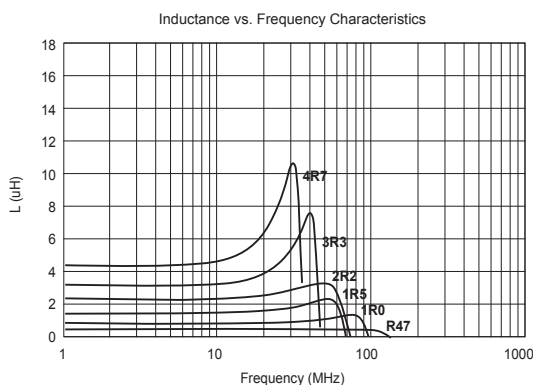
• Rated Current for a 40°C rise above 25°C ambient



AEC
Q200

Part Number	Impedance	Test Frequency	DC Resistance (RDC)	Rated Current (IDC) Max.
MPI252012B Series				
MPI252012B-R47M-□A	0.47μH±20%	3MHz	0.04Ω±30%	1800mA
MPI252012B-1R0M-□A	1.00μH±20%	3MHz	0.05Ω±30%	1600mA
MPI252012B-1R5M-□A	1.50μH±20%	3MHz	0.07Ω±30%	1400mA
MPI252012B-2R2M-□A	2.20μH±20%	3MHz	0.10Ω±30%	1200mA
MPI252012B-3R3M-□A	3.30μH±20%	3MHz	0.12Ω±30%	1100mA
MPI252012B-4R7M-□A	4.70μH±20%	3MHz	0.14Ω±30%	1000mA

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