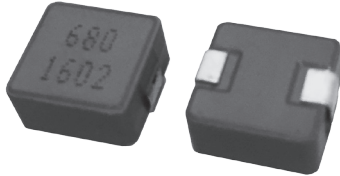




SMD Molding Type Power Inductor

TMPC Series



Features

- Shielded construction
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction

Application

- Excellent for power line DC-DC conversion applications used in power switching, personal computers and other handheld electronic equipment

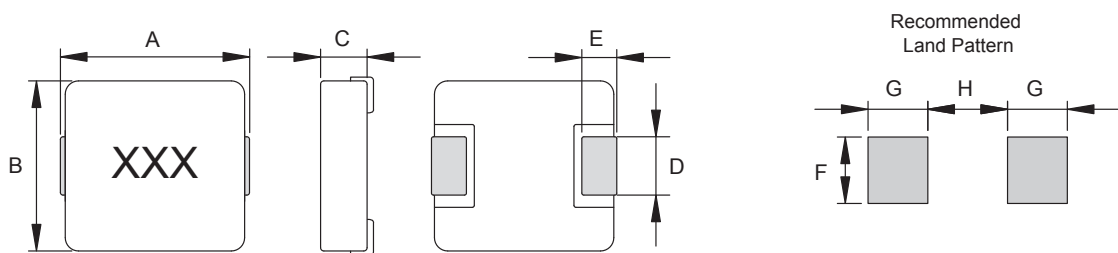
Part Numbering

TMPC 0302 HG - R10 N - □ 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: R10→0.10μH
- ⑤ Inductance Tolerance M=±20%, N=±30%
- ⑥ Control Code
- ⑦ Automobile Code

Shapes and Dimension



Unit: mm

Type	A	B	C	D	E	F	G	H
TMPC0302	4.00 (Max.)	3.20±0.30	1.80±0.20	1.20±0.20	0.70 (Typ.)	1.45	1.10	1.90
TMPC0402	4.70 (Max.)	4.06±0.25	1.80±0.20	2.00±0.20	0.76 (Typ.)	2.40	1.50	2.20
TMPC0412	5.00 (Max.)	4.06±0.25	1.00±0.20	2.00±0.20	0.76 (Typ.)	2.40	1.50	2.20
TMPC0515	6.20 (Max.)	5.20±0.20	1.30±0.20	2.50±0.30	1.10 (Typ.)	2.80	2.00	2.20
TMPC0518	6.20 (Max.)	5.20±0.20	1.60±0.20	2.50±0.30	1.10 (Typ.)	2.80	2.00	2.20
TMPC0512	6.50 (Max.)	5.20±0.20	1.00±0.20	2.50±0.30	1.10 (Typ.)	2.80	2.00	2.20
TMPC0502	6.50 (Max.)	5.20±0.20	1.80±0.20	2.50±0.30	1.10 (Typ.)	2.80	2.00	2.20
TMPC0615	7.00±0.50	6.60±0.30	1.30±0.20	3.00±0.30	1.80 (Typ.)	3.50	2.60	2.50
TMPC0618	7.00±0.30	6.60±0.30	1.60±0.20	3.00±0.30	1.80 (Typ.)	3.50	2.60	2.50

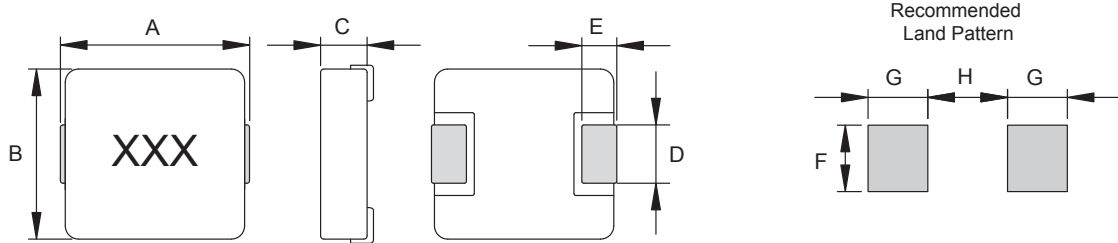
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SMD Molding Type Power Inductor

TMPC Series

Shapes and Dimension



Unit: mm

Type	A	B	C	D	E	F	G	H
TMPC0605	7.50±0.30	6.60±0.30	4.80±0.20	3.00±0.30	1.80 (Typ.)	3.50	2.95	2.50
TMPC0602	7.60 (Max.)	6.60±0.30	1.80±0.20	3.00±0.30	1.80 (Typ.)	3.50	2.95	2.50
TMPC0604	7.70 (Max.)	6.60±0.30	3.80±0.20	3.00±0.30	1.80 (Typ.)	3.50	2.95	2.50
TMPC0624	8.00 (Max.)	6.60±0.30	2.20±0.20	3.00±0.30	1.80 (Typ.)	3.50	2.60	2.50
TMPC1235	13.50±1.00	12.50±0.50	3.30±0.20	4.70±0.30	2.30 (Typ.)	5.00	3.10	8.00
TMPC1205	13.50±0.50	12.50±0.30	4.80±0.20	4.70±0.30	2.30 (Typ.)	5.00	3.10	8.00
TMPC1265	13.50±0.50	12.50±0.30	6.20±0.30	4.70±0.30	2.30 (Typ.)	5.00	3.10	8.00
TMPC1707	18.00 (Max.)	16.90±0.30	6.70±0.30	11.90±0.30	2.10 (Typ.)	12.50	3.15	12.20

General Technical Data

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

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SMD Molding Type Power Inductor

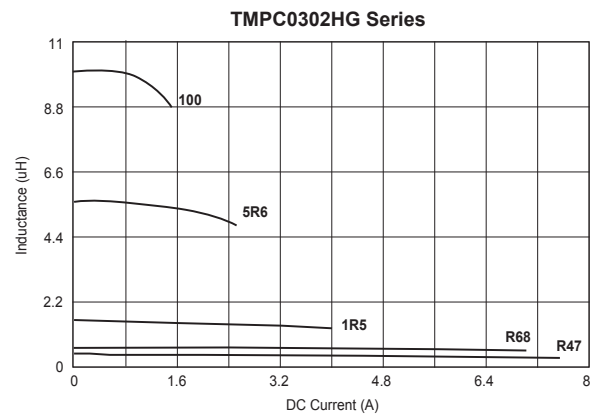
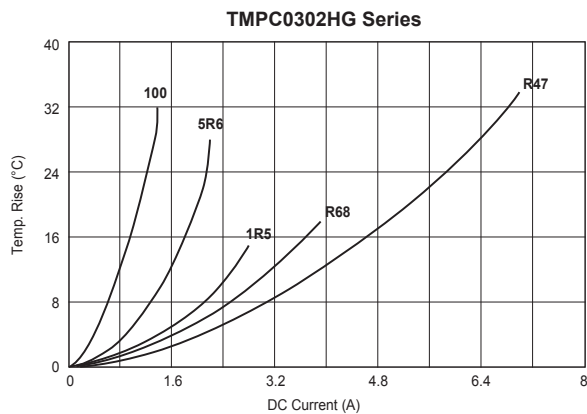
TMPC Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ.	Temperature Rise Current (I_{RMS}) Typ.
TMPC0302HG Series					
TMPC0302HG-R10N-□A	0.10 μ H \pm 30%	100KHz	9.0m Ω	14.0A	10.5A
TMPC0302HG-R22N-□A	0.22 μ H \pm 30%	100KHz	14.0m Ω	11.2A	9.0A
TMPC0302HG-R33M-□A	0.33 μ H \pm 20%	100KHz	21.0m Ω	10.0A	8.0A
TMPC0302HG-R47M-□A	0.47 μ H \pm 20%	100KHz	23.0m Ω	9.0A	7.0A
TMPC0302HG-R68M-□A	0.68 μ H \pm 20%	100KHz	29.0m Ω	7.0A	5.5A
TMPC0302HG-1R0M-□A	1.00 μ H \pm 20%	100KHz	38.0m Ω	5.0A	4.0A
TMPC0302HG-1R5M-□A	1.50 μ H \pm 20%	100KHz	50.0m Ω	4.0A	3.8A
TMPC0302HG-2R2M-□A	2.20 μ H \pm 20%	100KHz	75.0m Ω	3.7A	3.5A
TMPC0302HG-3R3M-□A	3.30 μ H \pm 20%	100KHz	145.0m Ω	3.5A	3.0A
TMPC0302HG-4R7M-□A	4.70 μ H \pm 20%	100KHz	200.0m Ω	3.0A	2.6A
TMPC0302HG-5R6M-□A	5.60 μ H \pm 20%	100KHz	238.0m Ω	2.6A	2.2A
TMPC0302HG-6R8M-□A	6.80 μ H \pm 20%	100KHz	300.0m Ω	2.2A	1.9A
TMPC0302HG-8R2M-□A	8.20 μ H \pm 20%	100KHz	390.0m Ω	1.9A	1.6A
TMPC0302HG-100M-□A	10.00 μ H \pm 20%	100KHz	422.0m Ω	1.6A	1.4A

- Saturation Current for Inductance becomes 30% lower than its initial value
- Temperature Rise Current for a 40°C rise above 25°C ambient



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SMD Molding Type Power Inductor

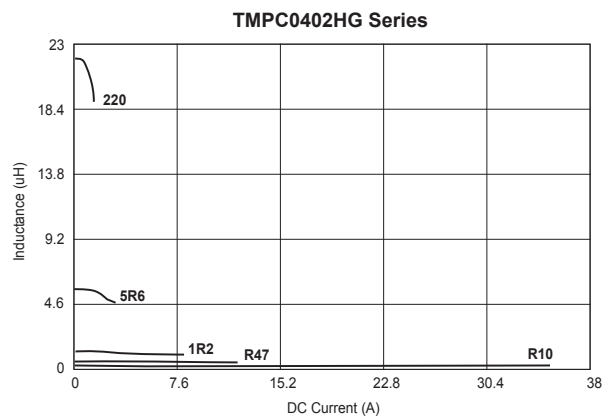
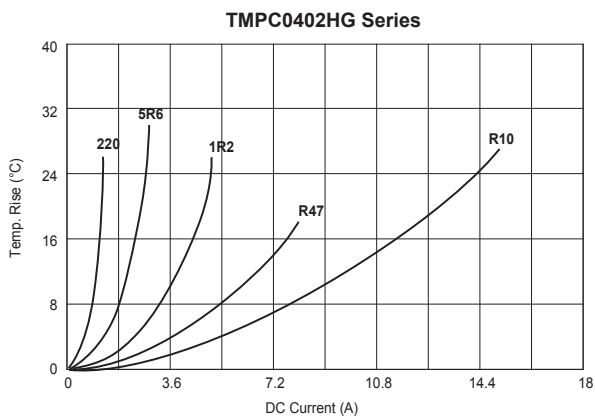
TMPC Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ.	Temperature Rise Current (I_{RMS}) Typ.
TMPC0402HG Series					
TMPC0402HG-R10N-□A	0.10 μ H \pm 30%	100KHz	4.0m Ω	35.0A	12.0A
TMPC0402HG-R22N-□A	0.22 μ H \pm 30%	100KHz	7.3m Ω	24.0A	13.0A
TMPC0402HG-R33M-□A	0.33 μ H \pm 20%	100KHz	8.6m Ω	18.0A	10.0A
TMPC0402HG-R47M-□A	0.47 μ H \pm 20%	100KHz	14.0m Ω	12.0A	8.0A
TMPC0402HG-R56M-□A	0.56 μ H \pm 20%	100KHz	16.0m Ω	10.0A	7.3A
TMPC0402HG-R68M-□A	0.68 μ H \pm 20%	100KHz	19.0m Ω	10.0A	7.0A
TMPC0402HG-1R0M-□A	1.00 μ H \pm 20%	100KHz	27.0m Ω	8.5A	5.0A
TMPC0402HG-1R2M-□A	1.20 μ H \pm 20%	100KHz	30.0m Ω	7.8A	4.8A
TMPC0402HG-1R5M-□A	1.50 μ H \pm 20%	100KHz	42.0m Ω	7.0A	4.5A
TMPC0402HG-2R2M-□A	2.20 μ H \pm 20%	100KHz	61.0m Ω	6.0A	4.0A
TMPC0402HG-3R3M-□A	3.30 μ H \pm 20%	100KHz	76.0m Ω	4.0A	3.5A
TMPC0402HG-4R7M-□A	4.70 μ H \pm 20%	100KHz	105.0m Ω	3.5A	2.6A
TMPC0402HG-5R6M-□A	5.60 μ H \pm 20%	100KHz	125.0m Ω	3.0A	2.2A
TMPC0402HG-6R8M-□A	6.80 μ H \pm 20%	100KHz	172.0m Ω	2.8A	2.1A
TMPC0402HG-8R2M-□A	8.20 μ H \pm 20%	100KHz	180.0m Ω	2.5A	2.0A
TMPC0402HG-100M-□A	10.00 μ H \pm 20%	100KHz	243.0m Ω	2.3A	1.8A
TMPC0402HG-150M-□A	15.00 μ H \pm 20%	100KHz	374.0m Ω	1.9A	1.5A
TMPC0402HG-220M-□A	22.00 μ H \pm 20%	100KHz	500.0m Ω	1.4A	1.2A

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SMD Molding Type Power Inductor

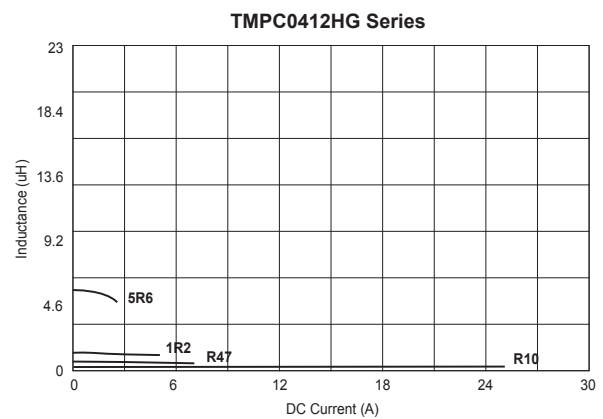
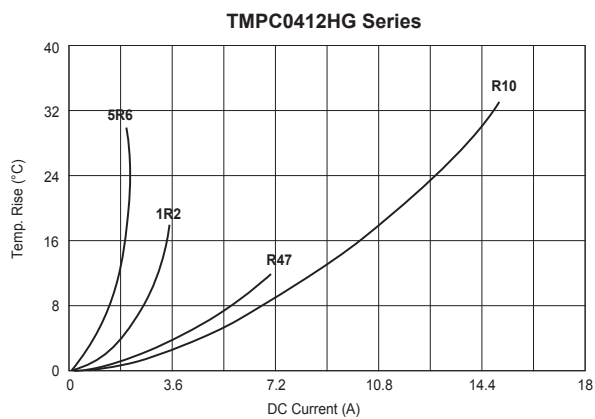
TMPC Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ.	Temperature Rise Current (I_{RMS}) Typ.
TMPC0412HG Series					
TMPC0412HG-R10N-□A	0.10 μ H \pm 30%	100KHz	5.5m Ω	25.0A	11.5A
TMPC0412HG-R15N-□A	0.15 μ H \pm 30%	100KHz	6.8m Ω	21.5A	10.0A
TMPC0412HG-R22M-□A	0.22 μ H \pm 20%	100KHz	8.0m Ω	20.0A	8.5A
TMPC0412HG-R36M-□A	0.36 μ H \pm 20%	100KHz	18.0m Ω	8.5A	6.5A
TMPC0412HG-R47M-□A	0.47 μ H \pm 20%	100KHz	20.0m Ω	6.5A	6.0A
TMPC0412HG-R60M-□A	0.60 μ H \pm 20%	100KHz	26.0m Ω	6.0A	5.3A
TMPC0412HG-R68M-□A	0.68 μ H \pm 20%	100KHz	37.0m Ω	6.0A	5.0A
TMPC0412HG-1R0M-□A	1.00 μ H \pm 20%	100KHz	47.0m Ω	6.0A	4.0A
TMPC0412HG-1R2M-□A	1.20 μ H \pm 20%	100KHz	56.0m Ω	5.0A	3.5A
TMPC0412HG-1R5M-□A	1.50 μ H \pm 20%	100KHz	63.3m Ω	4.0A	3.0A
TMPC0412HG-2R2M-□A	2.20 μ H \pm 20%	100KHz	80.0m Ω	3.5A	2.8A
TMPC0412HG-3R3M-□A	3.30 μ H \pm 20%	100KHz	97.0m Ω	3.0A	2.3A
TMPC0412HG-4R7M-□A	4.70 μ H \pm 20%	100KHz	145.0m Ω	2.5A	2.0A
TMPC0412HG-5R6M-□A	5.60 μ H \pm 20%	100KHz	208.0m Ω	2.3A	1.7A
TMPC0412HG-6R8M-□A	6.80 μ H \pm 20%	100KHz	360.0m Ω	1.7A	1.5A
TMPC0412HG-8R2M-□A	8.20 μ H \pm 20%	100KHz	376.0m Ω	1.6A	1.4A
TMPC0412HG-100M-□A	10.00 μ H \pm 20%	100KHz	463.0m Ω	1.4A	1.3A

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SMD Molding Type Power Inductor

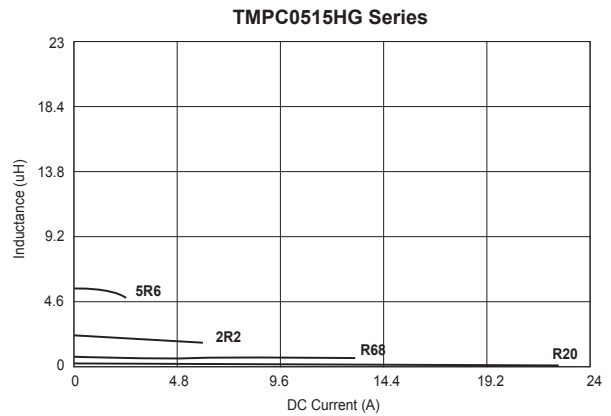
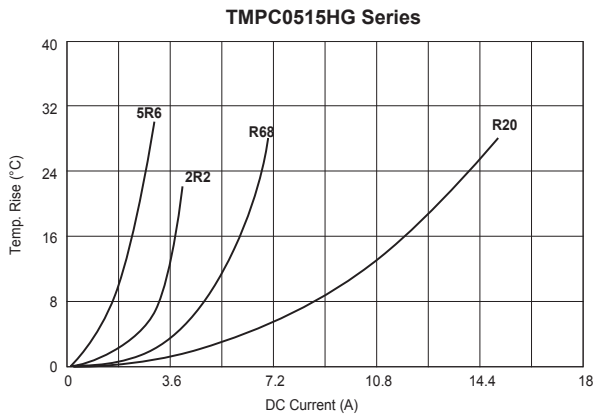
TMPC Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ.	Temperature Rise Current (I_{RMS}) Typ.
TMPC0515HG Series					
TMPC0515HG-R20N-□A	0.20 μ H \pm 30%	100KHz	4.2m Ω	22.5A	15.0A
TMPC0515HG-R33M-□A	0.33 μ H \pm 20%	100KHz	9.8m Ω	16.0A	9.0A
TMPC0515HG-R47M-□A	0.47 μ H \pm 20%	100KHz	13.8m Ω	15.0A	8.0A
TMPC0515HG-R68M-□A	0.68 μ H \pm 20%	100KHz	16.2m Ω	13.0A	7.0A
TMPC0515HG-1R0M-□A	1.00 μ H \pm 20%	100KHz	25.3m Ω	9.0A	6.0A
TMPC0515HG-1R5M-□A	1.50 μ H \pm 20%	100KHz	45.0m Ω	7.0A	4.5A
TMPC0515HG-2R2M-□A	2.20 μ H \pm 20%	100KHz	52.0m Ω	6.0A	4.0A
TMPC0515HG-3R3M-□A	3.30 μ H \pm 20%	100KHz	90.0m Ω	4.5A	3.2A
TMPC0515HG-4R7M-□A	4.70 μ H \pm 20%	100KHz	118.0m Ω	4.0A	2.7A
TMPC0515HG-5R6M-□A	5.60 μ H \pm 20%	100KHz	152.0m Ω	3.2A	2.4A
TMPC0515HG-6R8M-□A	6.80 μ H \pm 20%	100KHz	171.0m Ω	3.0A	2.3A
TMPC0515HG-8R2M-□A	8.20 μ H \pm 20%	100KHz	210.0m Ω	2.6A	2.1A
TMPC0515HG-100M-□A	10.00 μ H \pm 20%	100KHz	235.0m Ω	2.3A	2.0A

- Saturation Current for Inductance becomes 30% lower than its initial value
- Temperature Rise Current for a 40°C rise above 25°C ambient



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SMD Molding Type Power Inductor

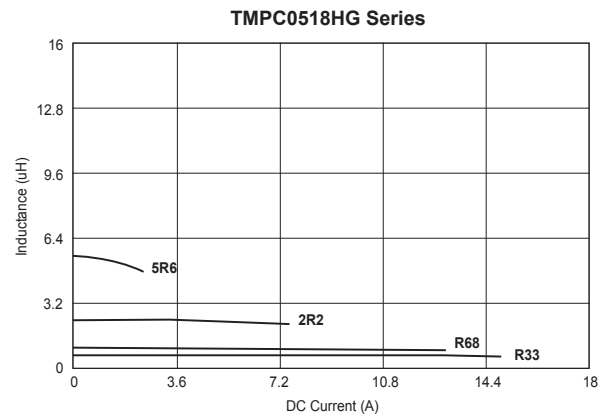
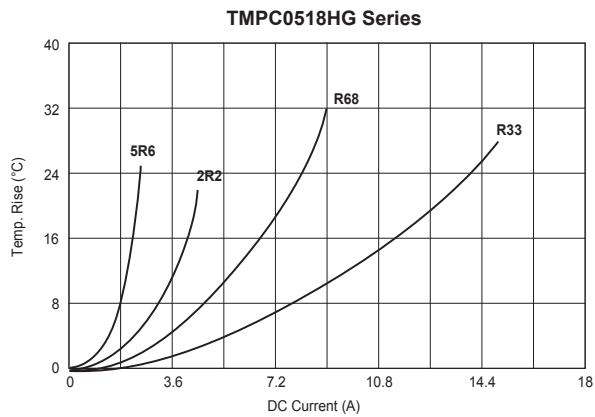
TMPC Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ.	Temperature Rise Current (I_{RMS}) Typ.
TMPC0518HG Series					
TMPC0518HG-R33M-□A	0.33 μ H \pm 20%	100KHz	8.6m Ω	15.0A	11.0A
TMPC0518HG-R47M-□A	0.47 μ H \pm 20%	100KHz	11.3m Ω	14.0A	10.0A
TMPC0518HG-R68M-□A	0.68 μ H \pm 20%	100KHz	14.3m Ω	13.0A	9.0A
TMPC0518HG-1R0M-□A	1.00 μ H \pm 20%	100KHz	21.0m Ω	10.0A	6.8A
TMPC0518HG-1R5M-□A	1.50 μ H \pm 20%	100KHz	30.0m Ω	9.0A	6.0A
TMPC0518HG-2R2M-□A	2.20 μ H \pm 20%	100KHz	48.3m Ω	7.5A	4.5A
TMPC0518HG-3R3M-□A	3.30 μ H \pm 20%	100KHz	69.0m Ω	5.0A	3.5A
TMPC0518HG-4R7M-□A	4.70 μ H \pm 20%	100KHz	98.0m Ω	4.5A	3.0A
TMPC0518HG-5R6M-□A	5.60 μ H \pm 20%	100KHz	127.0m Ω	4.0A	2.5A
TMPC0518HG-6R8M-□A	6.80 μ H \pm 20%	100KHz	137.0m Ω	3.5A	2.4A
TMPC0518HG-8R2M-□A	8.20 μ H \pm 20%	100KHz	165.0m Ω	3.0A	2.3A
TMPC0518HG-100M-□A	10.00 μ H \pm 20%	100KHz	190.0m Ω	2.8A	2.3A

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SMD Molding Type Power Inductor

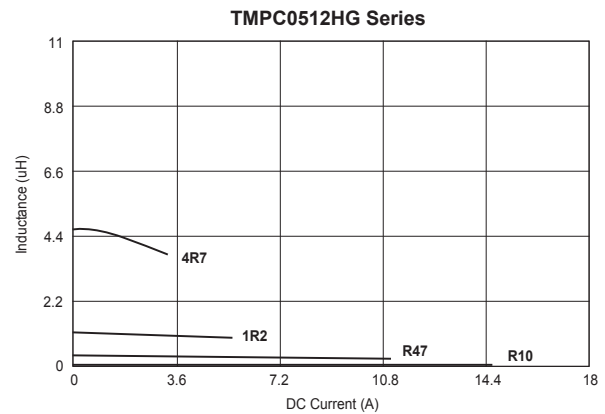
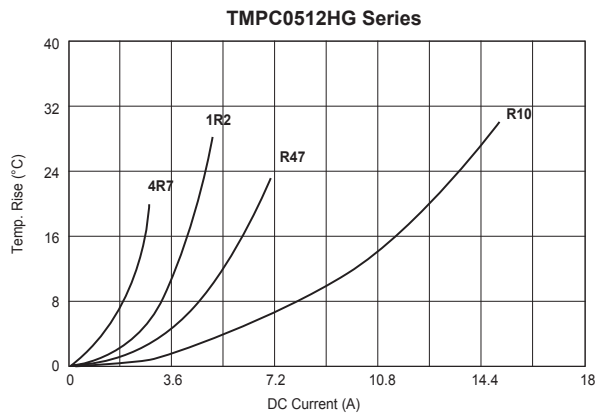
TMPC Series

AEC
Q200

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ.	Temperature Rise Current (I_{RMS}) Typ.
TMPC0512HG Series					
TMPC0512HG-R10N-□A	0.10 μ H \pm 30%	100KHz	5.2m Ω	14.5A	14.0A
TMPC0512HG-R22N-□A	0.22 μ H \pm 30%	100KHz	6.7m Ω	14.0A	10.7A
TMPC0512HG-R33M-□A	0.33 μ H \pm 20%	100KHz	9.4m Ω	13.5A	8.5A
TMPC0512HG-R36M-□A	0.36 μ H \pm 20%	100KHz	11.5m Ω	13.0A	8.0A
TMPC0512HG-R47M-□A	0.47 μ H \pm 20%	100KHz	15.8m Ω	11.0A	7.0A
TMPC0512HG-R68M-□A	0.68 μ H \pm 20%	100KHz	24.5m Ω	9.0A	6.0A
TMPC0512HG-1R0M-□A	1.00 μ H \pm 20%	100KHz	30.0m Ω	6.0A	5.0A
TMPC0512HG-1R2M-□A	1.20 μ H \pm 20%	100KHz	40.0m Ω	5.5A	4.5A
TMPC0512HG-1R5M-□A	1.50 μ H \pm 20%	100KHz	44.0m Ω	5.0A	4.0A
TMPC0512HG-2R2M-□A	2.20 μ H \pm 20%	100KHz	75.0m Ω	4.0A	3.5A
TMPC0512HG-3R3M-□A	3.30 μ H \pm 20%	100KHz	86.0m Ω	3.8A	3.0A
TMPC0512HG-4R7M-□A	4.70 μ H \pm 20%	100KHz	115.0m Ω	3.2A	2.5A
TMPC0512HG-5R6M-□A	5.60 μ H \pm 20%	100KHz	201.0m Ω	3.2A	2.4A
TMPC0512HG-6R8M-□A	6.80 μ H \pm 20%	100KHz	222.0m Ω	3.0A	2.0A
TMPC0512HG-8R2M-□A	8.20 μ H \pm 20%	100KHz	378.0m Ω	2.8A	1.7A

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SMD Molding Type Power Inductor

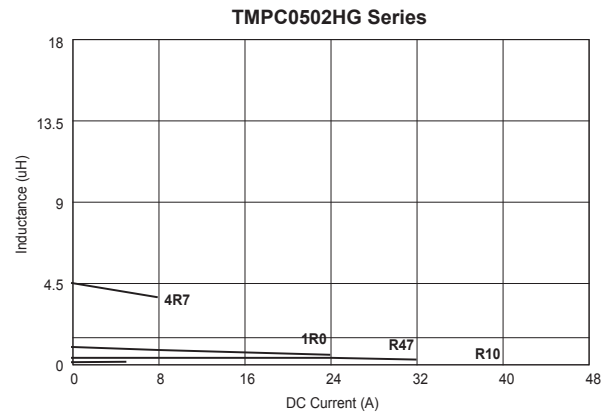
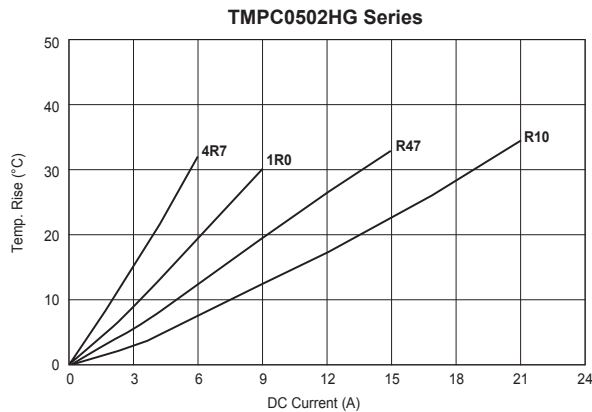
TMPC Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ.	Temperature Rise Current (I_{RMS}) Typ.
TMPC0502HG Series					
TMPC0502HG-R10N-□A	0.10μH±30%	100KHz	4.0mΩ	45.0A	18.0A
TMPC0502HG-R22M-□A	0.22μH±20%	100KHz	5.5mΩ	25.0A	15.0A
TMPC0502HG-R33M-□A	0.33μH±20%	100KHz	7.3mΩ	21.3A	12.0A
TMPC0502HG-R47M-□A	0.47μH±20%	100KHz	8.6mΩ	18.0A	11.5A
TMPC0502HG-R68M-□A	0.68μH±20%	100KHz	12.4mΩ	12.8A	10.0A
TMPC0502HG-1R0M-□A	1.00μH±20%	100KHz	20.0mΩ	13.7A	7.0A
TMPC0502HG-1R2M-□A	1.20μH±20%	100KHz	28.0mΩ	11.0A	6.2A
TMPC0502HG-1R5M-□A	1.50μH±20%	100KHz	30.5mΩ	9.8A	5.5A
TMPC0502HG-2R2M-□A	2.20μH±20%	100KHz	50.0mΩ	9.0A	4.2A
TMPC0502HG-3R3M-□A	3.30μH±20%	100KHz	76.0mΩ	7.3A	3.3A
TMPC0502HG-4R7M-□A	4.70μH±20%	100KHz	116.0mΩ	5.0A	2.8A
TMPC0502HG-5R6M-□A	5.60μH±20%	100KHz	122.0mΩ	4.0A	2.5A
TMPC0502HG-6R8M-□A	6.80μH±20%	100KHz	150.0mΩ	3.8A	2.4A
TMPC0502HG-8R2M-□A	8.20μH±20%	100KHz	171.0mΩ	3.5A	2.3A
TMPC0502HG-100M-□A	10.00μH±20%	100KHz	199.0mΩ	3.4A	2.3A

- Saturation Current for Inductance becomes 30% lower than its initial value
- Temperature Rise Current for a 40°C rise above 25°C ambient



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SMD Molding Type Power Inductor

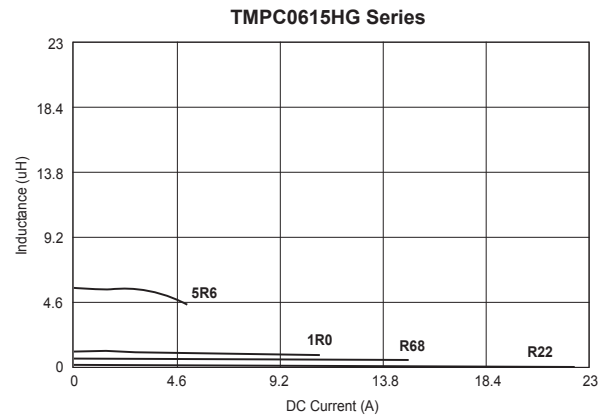
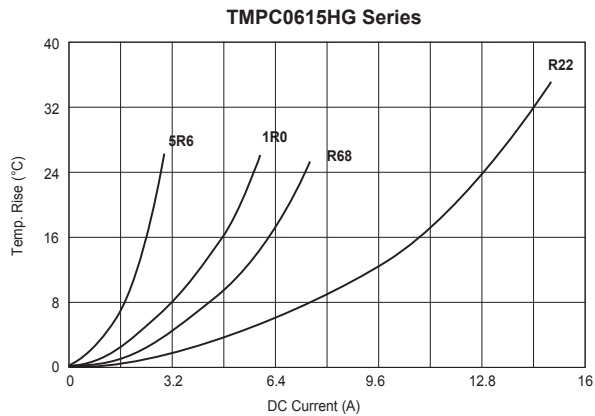
TMPC Series

AEC
Q200

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ.	Temperature Rise Current (I_{RMS}) Typ.
TMPC0615HG Series					
TMPC0615HG-R22N-□A	0.22 μ H \pm 30%	100KHz	5.2m Ω	22.0A	14.0A
TMPC0615HG-R33M-□A	0.33 μ H \pm 20%	100KHz	7.6m Ω	18.0A	11.0A
TMPC0615HG-R47M-□A	0.47 μ H \pm 20%	100KHz	10.3m Ω	16.0A	9.5A
TMPC0615HG-R68M-□A	0.68 μ H \pm 20%	100KHz	15.2m Ω	15.0A	7.5A
TMPC0615HG-1R0M-□A	1.00 μ H \pm 20%	100KHz	25.8m Ω	12.0A	6.5A
TMPC0615HG-1R5M-□A	1.50 μ H \pm 20%	100KHz	42.5m Ω	9.5A	5.0A
TMPC0615HG-2R2M-□A	2.20 μ H \pm 20%	100KHz	55.0m Ω	6.5A	4.5A
TMPC0615HG-3R3M-□A	3.30 μ H \pm 20%	100KHz	74.0m Ω	6.0A	4.2A
TMPC0615HG-4R7M-□A	4.70 μ H \pm 20%	100KHz	111.0m Ω	5.0A	3.8A
TMPC0615HG-5R6M-□A	5.60 μ H \pm 20%	100KHz	138.0m Ω	4.5A	3.0A
TMPC0615HG-6R8M-□A	6.80 μ H \pm 20%	100KHz	148.0m Ω	3.5A	2.6A
TMPC0615HG-8R2M-□A	8.20 μ H \pm 20%	100KHz	184.0m Ω	3.2A	2.4A
TMPC0615HG-100M-□A	10.00 μ H \pm 20%	100KHz	216.0m Ω	2.8A	2.3A

- Saturation Current for Inductance becomes 30% lower than its initial value
- Temperature Rise Current for a 40°C rise above 25°C ambient



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SMD Molding Type Power Inductor

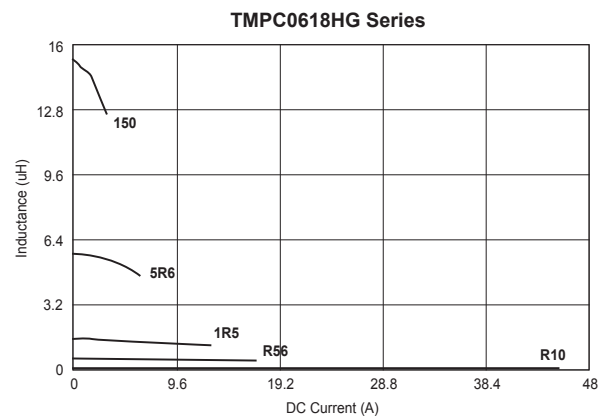
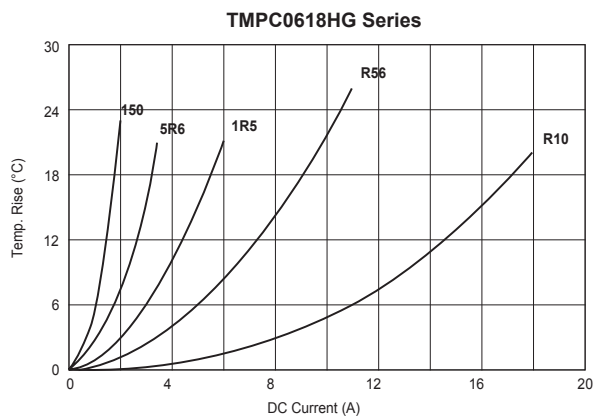
TMPC Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ.	Temperature Rise Current (I_{RMS}) Typ.
TMPC0618HG Series					
TMPC0618HG-R10N-□A	0.10 μ H \pm 30%	100KHz	2.5m Ω	45.0A	18.0A
TMPC0618HG-R33M-□A	0.33 μ H \pm 20%	100KHz	5.8m Ω	22.0A	14.0A
TMPC0618HG-R47M-□A	0.47 μ H \pm 20%	100KHz	7.4m Ω	18.0A	12.0A
TMPC0618HG-R56M-□A	0.56 μ H \pm 20%	100KHz	10.0m Ω	17.5A	11.0A
TMPC0618HG-R68M-□A	0.68 μ H \pm 20%	100KHz	11.0m Ω	17.0A	10.0A
TMPC0618HG-R82M-□A	0.82 μ H \pm 20%	100KHz	14.0m Ω	15.5A	8.5A
TMPC0618HG-1R0M-□A	1.00 μ H \pm 20%	100KHz	17.0m Ω	14.0A	7.0A
TMPC0618HG-1R2M-□A	1.20 μ H \pm 20%	100KHz	24.0m Ω	13.5A	6.5A
TMPC0618HG-1R5M-□A	1.50 μ H \pm 20%	100KHz	25.2m Ω	13.0A	6.0A
TMPC0618HG-2R2M-□A	2.20 μ H \pm 20%	100KHz	35.0m Ω	11.0A	6.0A
TMPC0618HG-3R3M-□A	3.30 μ H \pm 20%	100KHz	46.0m Ω	9.0A	5.0A
TMPC0618HG-4R7M-□A	4.70 μ H \pm 20%	100KHz	76.0m Ω	7.0A	4.0A
TMPC0618HG-5R6M-□A	5.60 μ H \pm 20%	100KHz	86.0m Ω	6.0A	3.5A
TMPC0618HG-6R8M-□A	6.80 μ H \pm 20%	100KHz	104.0m Ω	5.5A	3.0A
TMPC0618HG-8R2M-□A	8.20 μ H \pm 20%	100KHz	140.0m Ω	4.5A	2.6A
TMPC0618HG-100M-□A	10.00 μ H \pm 20%	100KHz	160.0m Ω	3.5A	2.3A
TMPC0618HG-150M-□A	15.00 μ H \pm 20%	100KHz	280.0m Ω	3.0A	2.0A

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SMD Molding Type Power Inductor

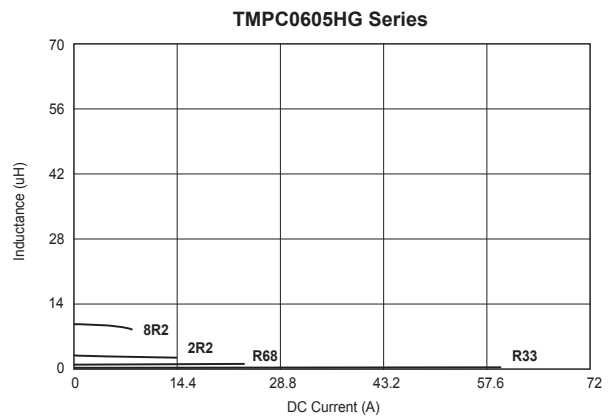
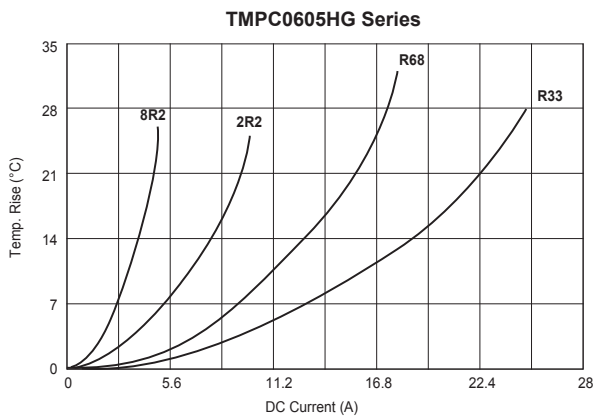
TMPC Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ.	Temperature Rise Current (I_{RMS}) Typ.
TMPC0605HG Series					
TMPC0605HG-R33M-□A	0.33 μ H \pm 20%	100KHz	3.0m Ω	32.0A	25.0A
TMPC0605HG-R47M-□A	0.47 μ H \pm 20%	100KHz	3.9m Ω	30.0A	22.0A
TMPC0605HG-R56M-□A	0.56 μ H \pm 20%	100KHz	4.2m Ω	27.0A	20.0A
TMPC0605HG-R60M-□A	0.60 μ H \pm 20%	100KHz	4.3m Ω	25.0A	19.0A
TMPC0605HG-R68M-□A	0.68 μ H \pm 20%	100KHz	4.5m Ω	24.0A	18.0A
TMPC0605HG-R82M-□A	0.82 μ H \pm 20%	100KHz	4.9m Ω	22.0A	16.5A
TMPC0605HG-1R0M-□A	1.00 μ H \pm 20%	100KHz	6.5m Ω	20.0A	15.0A
TMPC0605HG-1R2M-□A	1.20 μ H \pm 20%	100KHz	7.5m Ω	18.0A	14.0A
TMPC0605HG-1R5M-□A	1.50 μ H \pm 20%	100KHz	9.0m Ω	16.5A	12.0A
TMPC0605HG-1R8M-□A	1.80 μ H \pm 20%	100KHz	11.0m Ω	15.0A	12.0A
TMPC0605HG-2R2M-□A	2.20 μ H \pm 20%	100KHz	12.0m Ω	14.0A	10.0A
TMPC0605HG-3R3M-□A	3.30 μ H \pm 20%	100KHz	20.9m Ω	12.0A	8.0A
TMPC0605HG-4R7M-□A	4.70 μ H \pm 20%	100KHz	30.8m Ω	10.0A	6.5A
TMPC0605HG-5R6M-□A	5.60 μ H \pm 20%	100KHz	49.0m Ω	9.0A	6.0A
TMPC0605HG-6R8M-□A	6.80 μ H \pm 20%	100KHz	51.5m Ω	8.5A	5.5A
TMPC0605HG-8R2M-□A	8.20 μ H \pm 20%	100KHz	63.0m Ω	8.0A	5.0A
TMPC0605HG-100M-□A	10.00 μ H \pm 20%	100KHz	69.0m Ω	7.5A	4.0A
TMPC0605HG-220M-□A	22.00 μ H \pm 20%	100KHz	170.0m Ω	5.5A	2.5A

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SMD Molding Type Power Inductor

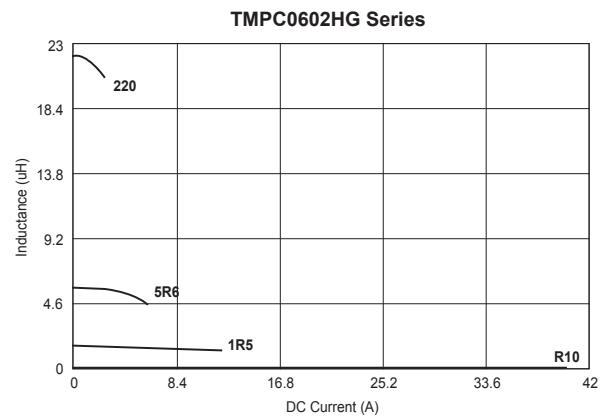
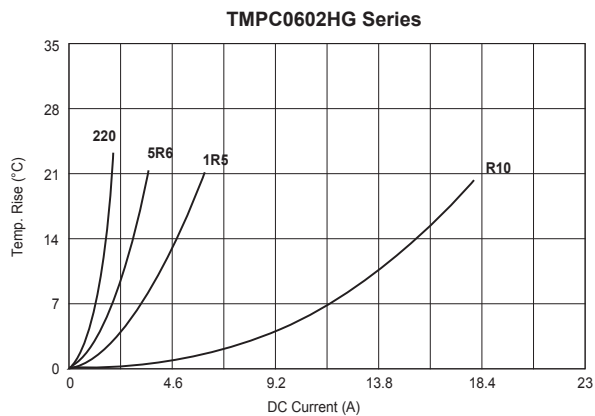
TMPC Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ.	Temperature Rise Current (I_{RMS}) Typ.
TMPC0602HG Series					
TMPC0602HG-R10N-□A	0.10μH±30%	100KHz	2.4mΩ	40.0A	21.0A
TMPC0602HG-R20N-□A	0.20μH±30%	100KHz	3.0mΩ	35.0A	18.0A
TMPC0602HG-R33M-□A	0.33μH±20%	100KHz	5.0mΩ	25.0A	14.0A
TMPC0602HG-R47M-□A	0.47μH±20%	100KHz	8.3mΩ	20.0A	11.7A
TMPC0602HG-R68M-□A	0.68μH±20%	100KHz	10.0mΩ	16.0A	10.5A
TMPC0602HG-1R0M-□A	1.00μH±20%	100KHz	18.0mΩ	14.0A	8.0A
TMPC0602HG-1R5M-□A	1.50μH±20%	100KHz	27.0mΩ	12.0A	7.0A
TMPC0602HG-2R2M-□A	2.20μH±20%	100KHz	37.0mΩ	10.0A	6.0A
TMPC0602HG-3R3M-□A	3.30μH±20%	100KHz	48.0mΩ	8.0A	5.0A
TMPC0602HG-4R7M-□A	4.70μH±20%	100KHz	60.0mΩ	7.0A	4.5A
TMPC0602HG-5R6M-□A	5.60μH±20%	100KHz	68.0mΩ	6.0A	4.0A
TMPC0602HG-6R8M-□A	6.80μH±20%	100KHz	73.0mΩ	5.5A	4.0A
TMPC0602HG-8R2M-□A	8.20μH±20%	100KHz	116.0mΩ	5.0A	3.2A
TMPC0602HG-100M-□A	10.00μH±20%	100KHz	154.0mΩ	4.0A	2.8A
TMPC0602HG-220M-□A	22.00μH±20%	100KHz	280.0mΩ	2.5A	1.5A

- Saturation Current for Inductance becomes 30% lower than its initial value
- Temperature Rise Current for a 40°C rise above 25°C ambient



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SMD Molding Type Power Inductor

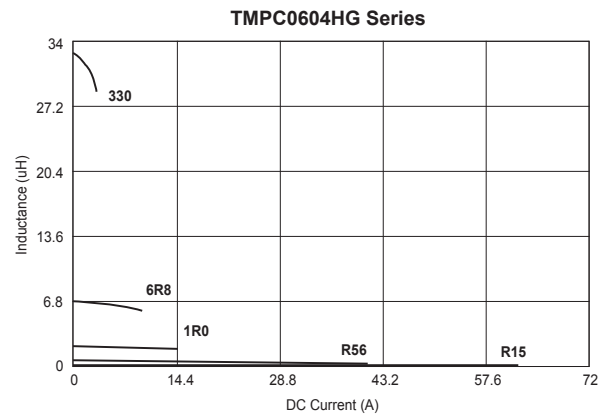
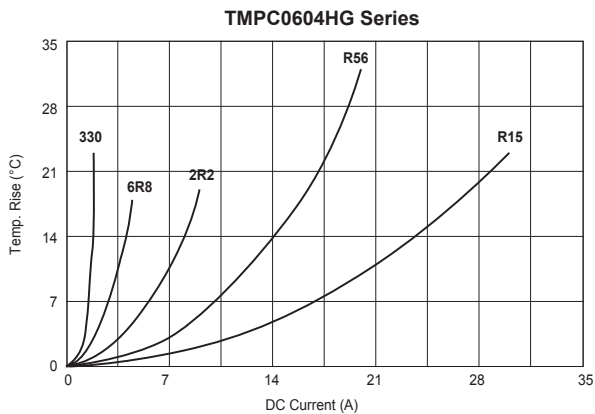
TMPC Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ.	Temperature Rise Current (I_{RMS}) Typ.
TMPC0604HG Series					
TMPC0604HG-R12N-□A	0.12μH±30%	100KHz	1.0mΩ	64A	32A
TMPC0604HG-R15N-□A	0.15μH±30%	100KHz	1.2mΩ	55A	30A
TMPC0604HG-R47M-□A	0.47μH±20%	100KHz	3.4mΩ	28A	23A
TMPC0604HG-R56M-□A	0.56μH±20%	100KHz	4.3mΩ	26A	20A
TMPC0604HG-R68M-□A	0.68μH±20%	100KHz	4.5mΩ	24A	16A
TMPC0604HG-1R5M-□A	1.50μH±20%	100KHz	12.0mΩ	20A	12A
TMPC0604HG-2R2M-□A	2.20μH±20%	100KHz	14.0mΩ	14A	9.0A
TMPC0604HG-4R7M-□A	4.70μH±20%	100KHz	32.5mΩ	11A	6.0A
TMPC0604HG-6R8M-□A	6.80μH±20%	100KHz	50.0mΩ	8.5A	4.5A
TMPC0604HG-8R2M-□A	8.20μH±20%	100KHz	64.0mΩ	8.0A	4.5A
TMPC0604HG-100M-□A	10.00μH±20%	100KHz	72.0mΩ	7.0A	4.0A
TMPC0604HG-150M-□A	15.00μH±20%	100KHz	90.0mΩ	3.5A	3.0A
TMPC0604HG-220M-□A	22.00μH±20%	100KHz	145.0mΩ	3.5A	2.5A
TMPC0604HG-330M-□A	33.00μH±20%	100KHz	210.0mΩ	3.2A	1.8A

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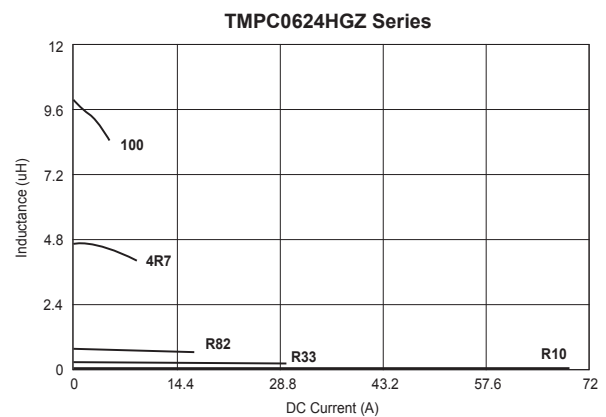
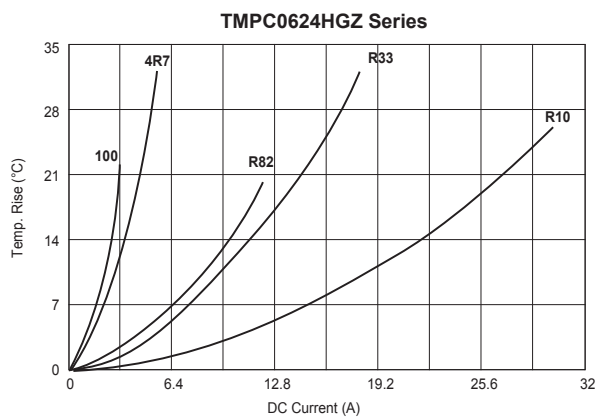
TMPC Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ.	Temperature Rise Current (I_{RMS}) Typ.
TMPC0624HGZ Series					
TMPC0624HGZ-R10N-□A	0.10 μ H \pm 30%	100KHz	1.7m Ω	70.0A	30.0A
TMPC0624HGZ-R15N-□A	0.15 μ H \pm 30%	100KHz	2.3m Ω	45.0A	30.0A
TMPC0624HGZ-R20M-□A	0.20 μ H \pm 20%	100KHz	2.8m Ω	40.0A	23.0A
TMPC0624HGZ-R22M-□A	0.22 μ H \pm 20%	100KHz	3.2m Ω	34.0A	21.0A
TMPC0624HGZ-R33M-□A	0.33 μ H \pm 20%	100KHz	4.4m Ω	30.0A	18.0A
TMPC0624HGZ-R36M-□A	0.36 μ H \pm 20%	100KHz	4.6m Ω	29.0A	17.0A
TMPC0624HGZ-R47M-□A	0.47 μ H \pm 20%	100KHz	5.1m Ω	26.0A	15.0A
TMPC0624HGZ-R56M-□A	0.56 μ H \pm 20%	100KHz	6.5m Ω	24.0A	13.0A
TMPC0624HGZ-R60M-□A	0.60 μ H \pm 20%	100KHz	6.9m Ω	22.0A	13.0A
TMPC0624HGZ-R68M-□A	0.68 μ H \pm 20%	100KHz	7.2m Ω	21.0A	13.0A
TMPC0624HGZ-R82M-□A	0.82 μ H \pm 20%	100KHz	9.5m Ω	17.0A	11.0A
TMPC0624HGZ-1R0M-□A	1.00 μ H \pm 20%	100KHz	13.5m Ω	16.0A	11.0A
TMPC0624HGZ-1R5M-□A	1.50 μ H \pm 20%	100KHz	20.0m Ω	15.0A	9.0A
TMPC0624HGZ-2R2M-□A	2.20 μ H \pm 20%	100KHz	28.0m Ω	14.0A	7.0A
TMPC0624HGZ-3R3M-□A	3.30 μ H \pm 20%	100KHz	39.0m Ω	10.0A	6.0A
TMPC0624HGZ-4R7M-□A	4.70 μ H \pm 20%	100KHz	50.0m Ω	9.0A	5.5A
TMPC0624HGZ-5R6M-□A	5.60 μ H \pm 20%	100KHz	62.0m Ω	8.0A	5.0A
TMPC0624HGZ-6R8M-□A	6.80 μ H \pm 20%	100KHz	72.0m Ω	7.0A	4.0A
TMPC0624HGZ-8R2M-□A	8.20 μ H \pm 20%	100KHz	95.0m Ω	6.0A	3.6A
TMPC0624HGZ-100M-□A	10.00 μ H \pm 20%	100KHz	101.0m Ω	5.0A	3.2A
TMPC0624HGZ-220M-□A	22.00 μ H \pm 20%	100KHz	215.0m Ω	3.0A	1.8A

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SMD Molding Type Power Inductor

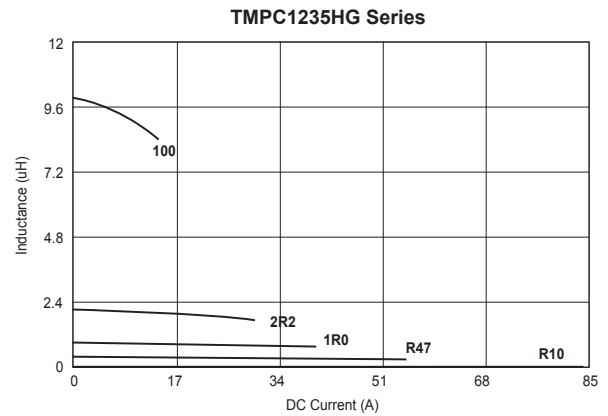
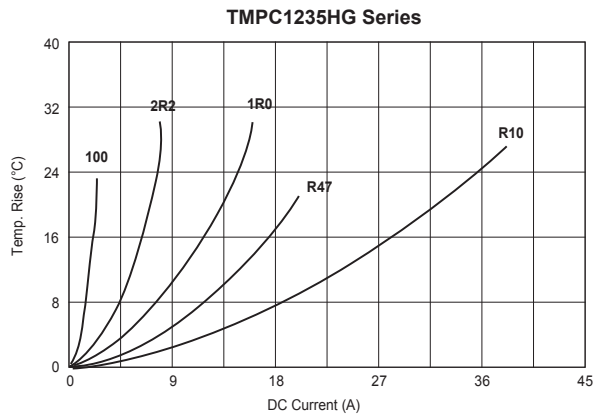
TMPC Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ.	Temperature Rise Current (I_{RMS}) Typ.
TMPC1235HG Series					
TMPC1235HG-R10N-□A	0.10 μ H \pm 30%	100KHz	0.43m Ω	84A	43.0A
TMPC1235HG-R47M-□A	0.47 μ H \pm 20%	100KHz	1.80m Ω	55A	32.0A
TMPC1235HG-1R0M-□A	1.00 μ H \pm 20%	100KHz	3.50m Ω	40A	24.0A
TMPC1235HG-1R2M-□A	1.20 μ H \pm 20%	100KHz	5.00m Ω	37A	21.0A
TMPC1235HG-1R5M-□A	1.50 μ H \pm 20%	100KHz	5.50m Ω	35A	19.0A
TMPC1235HG-1R8M-□A	1.80 μ H \pm 20%	100KHz	7.00m Ω	30A	17.0A
TMPC1235HG-2R2M-□A	2.20 μ H \pm 20%	100KHz	8.00m Ω	29A	16.0A
TMPC1235HG-3R3M-□A	3.30 μ H \pm 20%	100KHz	13.50m Ω	27A	12.0A
TMPC1235HG-4R7M-□A	4.70 μ H \pm 20%	100KHz	18.50m Ω	24A	10.0A
TMPC1235HG-5R6M-□A	5.60 μ H \pm 20%	100KHz	22.00m Ω	19A	9.5A
TMPC1235HG-6R8M-□A	6.80 μ H \pm 20%	100KHz	24.00m Ω	18A	9.0A
TMPC1235HG-8R2M-□A	8.20 μ H \pm 20%	100KHz	28.00m Ω	16A	8.5A
TMPC1235HG-100M-□A	10.00 μ H \pm 20%	100KHz	34.00m Ω	14A	7.0A
TMPC1235HG-330M-□A	33.00 μ H \pm 20%	100KHz	160.00m Ω	6A	3.5A

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SMD Molding Type Power Inductor

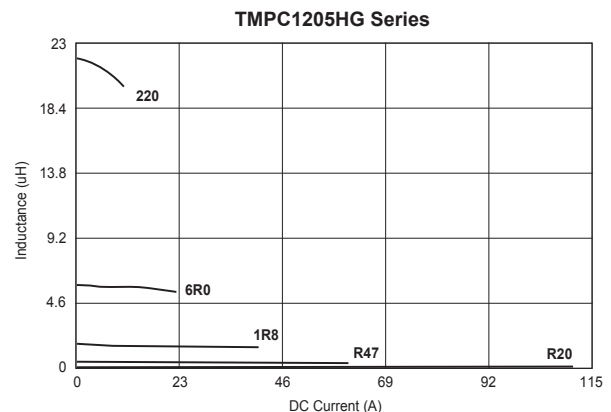
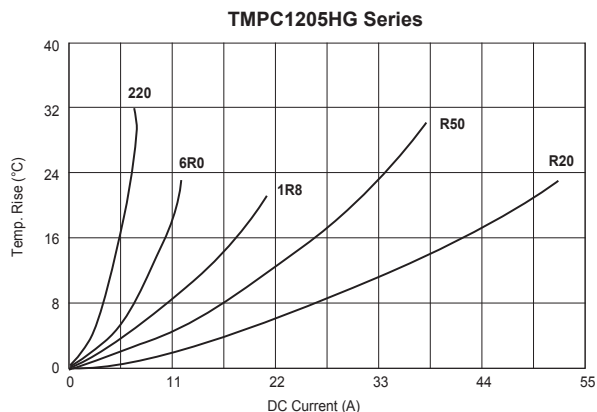
TMPC Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ.	Temperature Rise Current (I_{RMS}) Typ.
TMPC1205HG Series					
TMPC1205HG-R20M-□A	0.20 μ H \pm 20%	100KHz	0.55m Ω	110.0A	52.0A
TMPC1205HG-R47M-□A	0.47 μ H \pm 20%	100KHz	1.1m Ω	65.0A	38.0A
TMPC1205HG-R50M-□A	0.50 μ H \pm 20%	100KHz	1.3m Ω	60.0A	37.0A
TMPC1205HG-R68M-□A	0.68 μ H \pm 20%	100KHz	1.7m Ω	54.0A	34.0A
TMPC1205HG-R82M-□A	0.82 μ H \pm 20%	100KHz	2.1m Ω	52.0A	31.0A
TMPC1205HG-1R0M-□A	1.00 μ H \pm 20%	100KHz	2.5m Ω	50.0A	29.0A
TMPC1205HG-1R2M-□A	1.20 μ H \pm 20%	100KHz	3.0m Ω	49.0A	28.0A
TMPC1205HG-1R5M-□A	1.50 μ H \pm 20%	100KHz	3.3m Ω	48.0A	27.0A
TMPC1205HG-1R8M-□A	1.80 μ H \pm 20%	100KHz	4.9m Ω	40.0A	21.0A
TMPC1205HG-2R2M-□A	2.20 μ H \pm 20%	100KHz	5.5m Ω	32.0A	20.0A
TMPC1205HG-3R3M-□A	3.30 μ H \pm 20%	100KHz	9.2m Ω	32.0A	15.0A
TMPC1205HG-4R7M-□A	4.70 μ H \pm 20%	100KHz	15.0m Ω	27.0A	12.0A
TMPC1205HG-5R6M-□A	5.60 μ H \pm 20%	100KHz	16.5m Ω	22.0A	11.5A
TMPC1205HG-6R0M-□A	6.00 μ H \pm 20%	100KHz	16.5m Ω	21.5A	11.5A
TMPC1205HG-6R8M-□A	6.80 μ H \pm 20%	100KHz	18.5m Ω	21.0A	11.0A
TMPC1205HG-8R2M-□A	8.20 μ H \pm 20%	100KHz	22.5m Ω	18.0A	9.5A
TMPC1205HG-100M-□A	10.00 μ H \pm 20%	100KHz	25.5m Ω	16.0A	9.0A
TMPC1205HG-120M-□A	12.00 μ H \pm 20%	100KHz	34.0m Ω	15.0A	8.6A
TMPC1205HG-150M-□A	15.00 μ H \pm 20%	100KHz	38.0m Ω	13.0A	8.2A
TMPC1205HG-180M-□A	18.00 μ H \pm 20%	100KHz	45.0m Ω	11.0A	7.5A
TMPC1205HG-220M-□A	22.00 μ H \pm 20%	100KHz	58.0m Ω	10.0A	6.5A
TMPC1205HG-270M-□A	27.00 μ H \pm 20%	100KHz	76.0m Ω	8.5A	5.2A
TMPC1205HG-330M-□A	33.00 μ H \pm 20%	100KHz	88.0m Ω	8.0A	5.0A
TMPC1205HG-390M-□A	39.00 μ H \pm 20%	100KHz	100.0m Ω	7.5A	4.7A
TMPC1205HG-680M-□A	68.00 μ H \pm 20%	100KHz	162.0m Ω	5.5A	3.5A
TMPC1205HG-820M-□A	82.00 μ H \pm 20%	100KHz	238.0m Ω	4.8A	3.0A

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SMD Molding Type Power Inductor

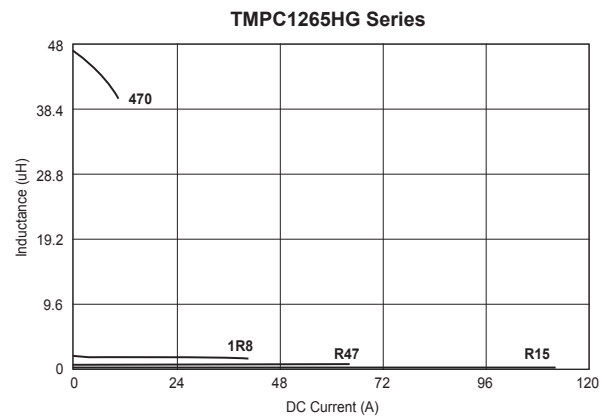
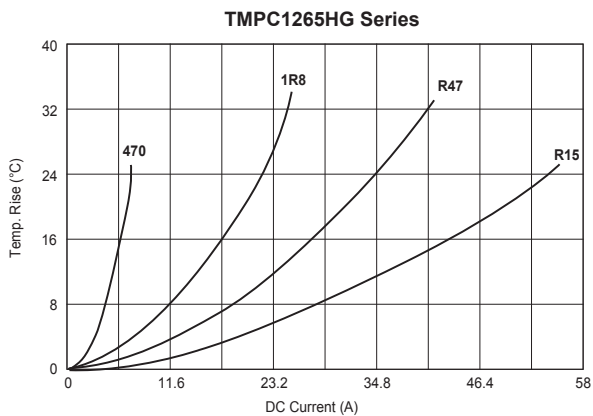
TMPC Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ.	Temperature Rise Current (I_{RMS}) Typ.
TMPC1265HG Series					
TMPC1265HG-R15M-□A	0.15 μ H \pm 20%	100KHz	0.6m Ω	118.0A	55.0A
TMPC1265HG-R22M-□A	0.22 μ H \pm 20%	100KHz	0.6m Ω	112.0A	53.0A
TMPC1265HG-R33M-□A	0.33 μ H \pm 20%	100KHz	0.8m Ω	68.0A	46.0A
TMPC1265HG-R47M-□A	0.47 μ H \pm 20%	100KHz	1.2m Ω	63.0A	41.0A
TMPC1265HG-R56M-□A	0.56 μ H \pm 20%	100KHz	1.2m Ω	58.0A	37.0A
TMPC1265HG-R68M-□A	0.68 μ H \pm 20%	100KHz	1.5m Ω	55.0A	35.0A
TMPC1265HG-R82M-□A	0.82 μ H \pm 20%	100KHz	1.9m Ω	50.0A	33.0A
TMPC1265HG-1R0M-□A	1.00 μ H \pm 20%	100KHz	2.3m Ω	48.0A	30.0A
TMPC1265HG-1R5M-□A	1.50 μ H \pm 20%	100KHz	3.0m Ω	45.0A	27.0A
TMPC1265HG-1R8M-□A	1.80 μ H \pm 20%	100KHz	4.0m Ω	40.0A	24.0A
TMPC1265HG-2R2M-□A	2.20 μ H \pm 20%	100KHz	4.2m Ω	37.0A	22.0A
TMPC1265HG-3R3M-□A	3.30 μ H \pm 20%	100KHz	6.8m Ω	30.0A	18.0A
TMPC1265HG-4R7M-□A	4.70 μ H \pm 20%	100KHz	8.4m Ω	28.0A	13.5A
TMPC1265HG-5R6M-□A	5.60 μ H \pm 20%	100KHz	10.0m Ω	23.0A	12.5A
TMPC1265HG-6R8M-□A	6.80 μ H \pm 20%	100KHz	11.5m Ω	18.0A	11.5A
TMPC1265HG-8R2M-□A	8.20 μ H \pm 20%	100KHz	15.5m Ω	16.0A	10.5A
TMPC1265HG-100M-□A	10.00 μ H \pm 20%	100KHz	16.5m Ω	15.0A	10.0A
TMPC1265HG-130M-□A	13.00 μ H \pm 20%	100KHz	24.0m Ω	13.0A	9.0A
TMPC1265HG-150M-□A	15.00 μ H \pm 20%	100KHz	28.0m Ω	12.5A	9.0A
TMPC1265HG-220M-□A	22.00 μ H \pm 20%	100KHz	37.0m Ω	12.0A	9.0A
TMPC1265HG-470M-□A	47.00 μ H \pm 20%	100KHz	90.0m Ω	9.5A	6.5A

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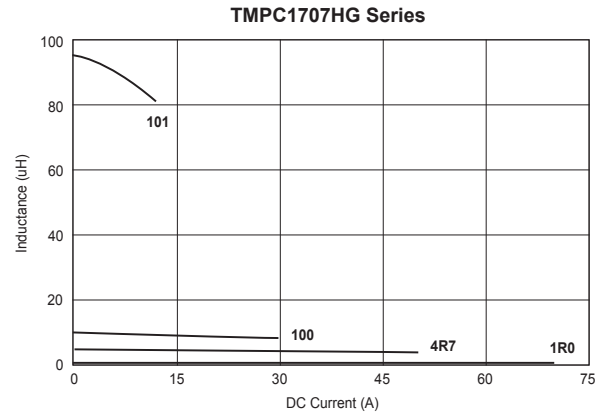
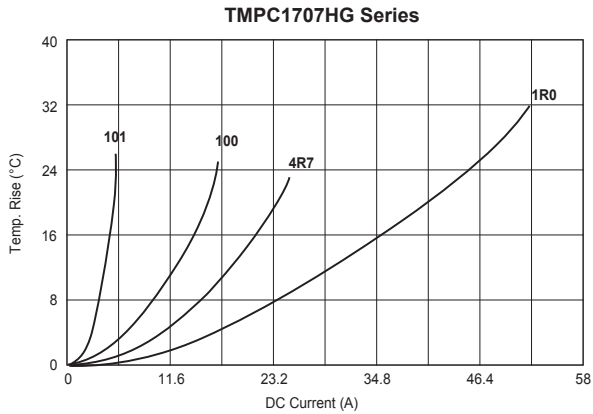
TMPC Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ.	Temperature Rise Current (I_{RMS}) Typ.
TMPC1707HG Series					
TMPC1707HG-1R0M-□A	1.00 μ H \pm 20%	100KHz	2.0m Ω	60.0A	52.0A
TMPC1707HG-2R2M-□A	2.20 μ H \pm 20%	100KHz	2.7m Ω	47.0A	43.5A
TMPC1707HG-3R3M-□A	3.30 μ H \pm 20%	100KHz	3.9m Ω	45.0A	28.0A
TMPC1707HG-4R7M-□A	4.70 μ H \pm 20%	100KHz	5.5m Ω	41.0A	25.0A
TMPC1707HG-5R6M-□A	5.60 μ H \pm 20%	100KHz	7.0m Ω	40.0A	21.0A
TMPC1707HG-6R8M-□A	6.80 μ H \pm 20%	100KHz	9.2m Ω	32.0A	19.0A
TMPC1707HG-8R2M-□A	8.20 μ H \pm 20%	100KHz	10.8m Ω	25.0A	18.0A
TMPC1707HG-100M-□A	10.00 μ H \pm 20%	100KHz	13.0m Ω	24.0A	16.5A
TMPC1707HG-150M-□A	15.00 μ H \pm 20%	100KHz	20.5m Ω	23.0A	12.5A
TMPC1707HG-220M-□A	22.00 μ H \pm 20%	100KHz	26.5m Ω	18.0A	12.0A
TMPC1707HG-330M-□A	33.00 μ H \pm 20%	100KHz	44.0m Ω	15.0A	10.7A
TMPC1707HG-470M-□A	47.00 μ H \pm 20%	100KHz	55.0m Ω	9.5A	8.7A
TMPC1707HG-101M-□A	100.00 μ H \pm 20%	100KHz	118.0m Ω	6.5A	5.3A

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