



ELECTRONIC COMPANY

SMD POWER INDUCTOR

WT SERIES



FEATURES/APPLICATOINS

RoHS compliant.

Super low resistance, ultra high current rating.

High performance (Isat) realized by metal dust core.

Frequency Range: up to 1MHz.

PDA, notebook, desktop, and server applications.

Low profile, high current power supplies.

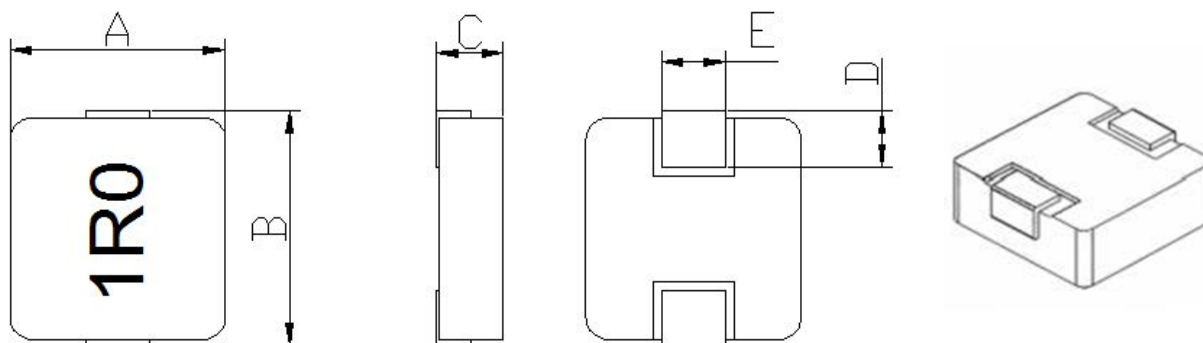
Battery powered devices.

DC/DC converters in distributed power systems.

DC/DC converters for field programmable gate array.



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SMD POWER INDUCTORS: WT0420-Series


Series	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
WT0420-Series	4.3 ± 0.2	4.6 ± 0.3	2.0MAX	1.0 ± 0.5	2.0 ± 0.2
Part Number	L0 Inductance (μ H) $\pm 20\%$	Heat Rating Current DC Amps.IDC(A)	Saturation Current Part Number DC Amps. Isat (A)	DCR $m\Omega$ TYPICAL 25 ° C	DCR $m\Omega$ MAX 25 ° C
WT0420-R10M-HG	0.1	12.0	22.0	3.5	4.0
WT0420-R22M-HG	0.22	9.0	12.5	6.0	6.6
WT0420-R47M-HG	0.47	7.0	9.5	21.0	25.0
WT0420-R56M-HG	0.56	6.5	10.0	23.0	27.0
WT0420-R68M-HG	0.68	5.2	8.0	27.0	29
WT0420-1R0M-HG	1.0	4.5	7.0	28.0	36.0
WT0420-1R2M-HG	1.2	4.5	7.0	28.0	36.0
WT0420-1R5M-HG	1.5	4.0	6.0	38.0	46.0
WT0420-2R2M-HG	2.2	3.0	5.0	52	58
WT0420-3R3M-HG	3.3	2.5	4.0	74.0	87.0
WT0420-4R7M-HG	4.7	2.2	3.0	92	105.0

*: you require another part number please contact with us.

**: Inductance Tolerance $\pm 20\%$

Note 1: All test data is referenced to 25°C ambient.

Note 2: Idc : DC current (A) that will cause an approximate ΔT of 40°C

Note 3: Isat : DC current (A) that will cause Lo to drop approximately 30%



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SMD POWER INDUCTORS: WT0530-Series					
Series	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
WT0530-1R0M-HG	5.3 ± 0.2	5.6 ± 0.3	3.0MAX	1.2 ± 0.3	2.3 ± 0.2
Part Number	L0 Inductance (μH) $\pm 20\%$	Heat Rating Current DC Amps.IDC (A)	Saturation Current Part Number DC Amps. Isat (A)	DCR $\text{m}\Omega$ TYPICAL 25 ° C	DCR $\text{m}\Omega$ MAX 25 ° C
WT0530-R68M-HG	0.68	8.5	14.0	11	12.0
WT0530-1R0M-HG	1	7	11.0	13	14.0
WT0530-1R2M-HG	1.2	6.5	11.0	15	16.0
WT0530-1R5M-HG	1.5	6	10.0	20	25.0
WT0530-2R2M-HG	2.2	5.5	9.0	29	35.0
WT0530-3R3M-HG	3.3	5.0	7.0	32	38.0
WT0530-4R7M-HG	4.7	3.0	5.0	50	60

*: you require another part number please contact with us.

**: Inductance Tolerance $\pm 20\%$

Note 1: All test data is referenced to 25°C ambient.

Note 2: Idc : DC current (A) that will cause an approximate ΔT of 40°C

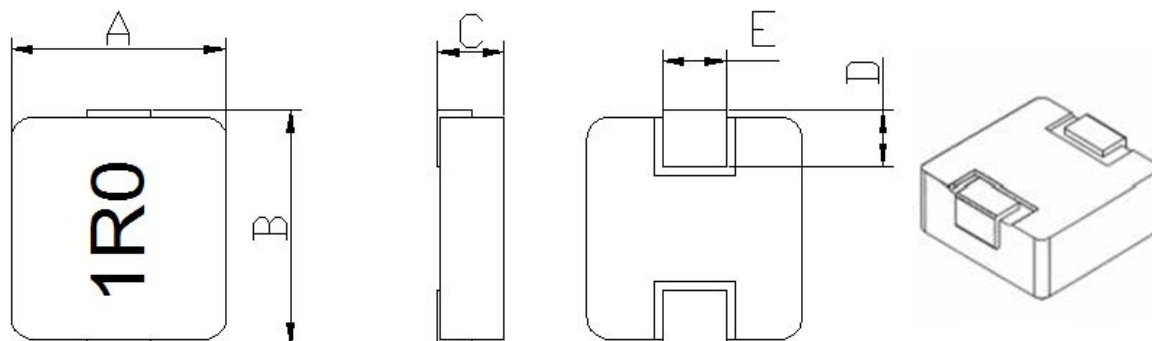
Note 3: Isat : DC current (A) that will cause Lo to drop approximately 30%



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SMD POWER INDUCTORS:

WT0624-Series



Series	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
WT0624-1R0M-HG	6.6 ± 0.2	7.5MAX	2.4MAX	1.5 ± 0.5	3.0 ± 0.2
Part Number	L0 Inductance (μ H) $\pm 20\%$	Heat Rating Current DC Amps.IDC(A)	Saturation Current Part Number DC Amps. Isat (A)	DCR M Ω TYPICAL 25 $^{\circ}$ C	DCR m Ω MAX $^{\circ}$ C 25
WT0624-R47M-HG	0.47	14.0	19.0	5.3	6.5
WT0624-R68M-HG	0.68	11.5	18.0	7.9	9.4
WT0624-R82M-HG	0.82	10.5	16.0	9.6	11.8
WT0624-1R0M-HG	1.0	10.0	15.0	12.5	14.2
WT0624-1R5M-HG	1.5	8.0	13.0	17.6	21.2
WT0624-2R2M-HG	2.2	7.0	12.0	28.0	34.0
WT0624-3R3M-HG	3.3	5.5	9.0	45.0	51.6
WT0624-4R7M-HG	4.7	5.0	7.5	57.0	63.0
WT0624-6R8M-HG	6.8	4.0	6.0	83.0	95.0
WT0624-8R2M-HG	8.2	3.5	5.0	94.0	106.0
WT0624-100M-HG	10.0	3.1	4.0	108.0	129.0

*: you require another part number please contact with us.

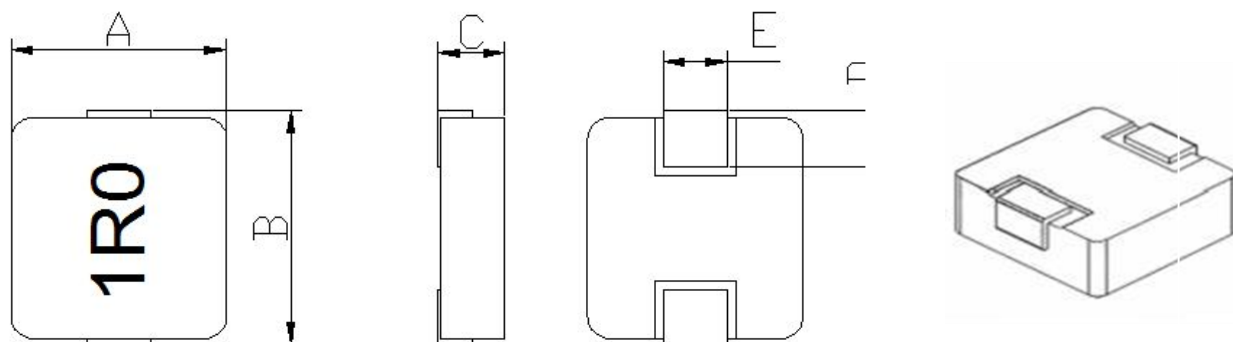
**: Inductance Tolerance $\pm 20\%$ Note 1: All test data is referenced to 25 $^{\circ}$ C ambient.Note 2: Idc : DC current (A) that will cause an approximate ΔT of 40 $^{\circ}$ C

Note 3: Isat : DC current (A) that will cause Lo to drop approximately 30%



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SMD POWER INDUCTORS: WT0630-Series



Series	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
WT0630-1R0M-HG	6.6 ± 0.2	7.5MAX	3.0MAX	1.5 ± 0.5	3.0 ± 0.2
Part Number	L0 Inductance (μ H) $\pm 20\%$	Heat Rating Current DC Amps.IDC(A)	Saturation Current Part Number DC Amps. Isat (A)	DCR $m\Omega$ TYPICAL 25 ° C	DCR $m\Omega$ MAX 25 ° C
WT0630-R10M-HG	0.1	28	40	1.8	2.2
WT0630-R20M-HG	0.2	24.0	34.0	2.4	3.0
WT0630-R33M-HG	0.33	21.0	25.0	3.0	3.5
WT0630-R47M-HG	0.47	18	20.0	3.4	4.1
WT0630-R68M-HG	0.68	16.0	17.0	4.8	5.3
WT0630-R82M-HG	0.82	14.0	16.0	5.4	6.0
WT0630-1R0M-HG	1.0	12.0	15.0	8.4	9.2
WT0630-1R5M-HG	1.5	10.0	14.0	10.6	12.1
WT0630-2R2M-HG	2.2	8.0	10.0	13.5	15.0
WT0630-3R3M-HG	3.3	6.5	9.5	18.0	22.0
WT0630-4R7M-HG	4.7	5.5	6.5	28.0	38.0
WT0630-5R6M-HG	5.6	5.5	6.0	39.0	46.0
WT0630-6R8M-HG	6.8	4.5	6.0	43.9	50.0
WT0630-8R2M-HG	8.2	4.0	6.0	54.0	60.0
WT0630-100M-HG	10.0	3.5	5.5	62.0	68.0
WT0630-150M-HG	15.0	3.0	4.0	105.0	110.0
WT0630-220M-HG	22.0	2.5	3.0	125.0	135.0

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**: Inductance Tolerance $\pm 20\%$

Note 1: All test data is referenced to 25°C ambient.

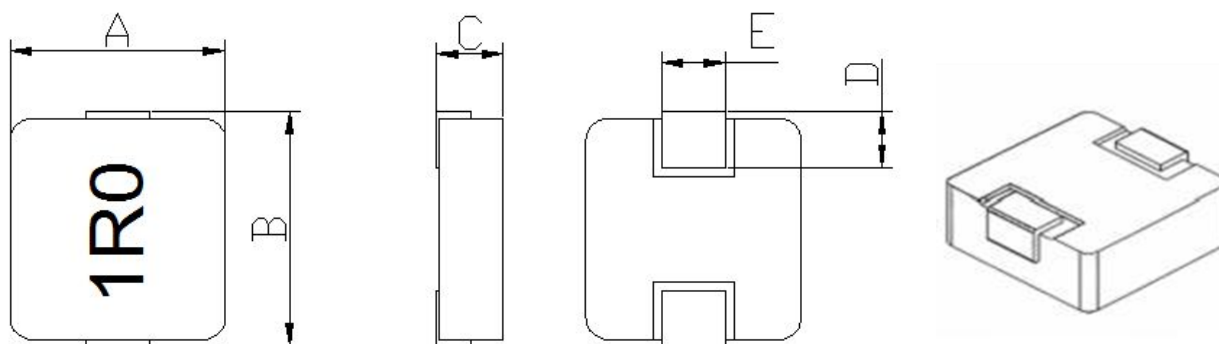
Note 2: Idc : DC current (A) that will cause an approximate ΔT of 40°C

Note 3: Isat : DC current (A) that will cause Lo to drop approximately 30%



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SMD POWER INDUCTORS: WT0640-Series



Series	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
WT0640-1R0M-HG	6.6 ± 0.2	7.5MAX	4.0MAX	1.5 ± 0.5	3.0 ± 0.2
Part Number	L0 Inductance (μ H) $\pm 20\%$	Heat Rating Current DC Amps.IDC(A)	Saturation Current Part Number DC Amps. Isat (A	DCR M Ω TYPICAL 25 ° C	DCR m Ω MAX 25 ° C
WT0640-R47M-HG	0.47	20	22.0	3.2	3.6
WT0640-R68M-HG	0.68	18.0	20.0	4.3	5.0
WT0640-R82M-HG	0.82	16.0	18.0	6.4	7.0
WT0640-1R0M-HG	1.0	13.0	17.0	7.2	8.4
WT0640-1R5M-HG	1.5	11.0	15.0	8.3	9.7
WT0640-2R2M-HG	2.2	9.0	12.0	11.8	14.0
WT0640-3R3M-HG	3.3	8.0	11.0	16.3	19.1
WT0640-4R7M-HG	4.7	6.5	9.0	27.5	35.0
WT0640-6R8M-HG	6.8	5.5	8.0	36.0	45.0
WT0640-8R2M-HG	8.2	5.0	7.0	44.0	50.0
WT0640-100M-HG	10.0	4	6.0	50.0	58.0

*: you require another part number please contact with us.

**: Inductance Tolerance $\pm 20\%$

Note 1: All test data is referenced to 25°C ambient.

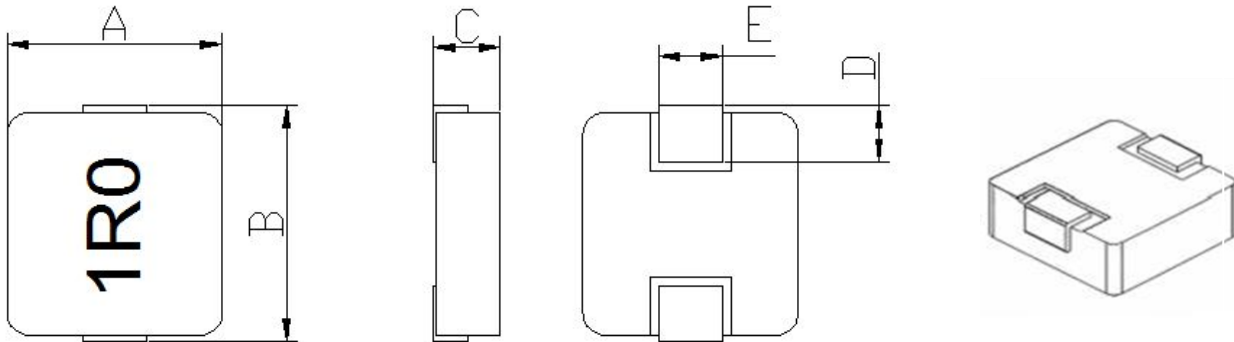
Note 2: Idc : DC current (A) that will cause an approximate ΔT of 40°C

Note 3: Isat : DC current (A) that will cause Lo to drop approximately 30%



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SMD POWER INDUCTORS: WT0650M Series



Series	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
WT0650-1R0M-HG	6.6 ± 0.2	7.5MAX	5.0MAX	1.5 ± 0.5	3.0 ± 0.2
Part Number	L0 Inductance (μ H) $\pm 20\%$	Heat Rating Current DC Amps.IDC(A)	Saturation Current Part Number DC	DCR $m\Omega$ TYPICAL 25 ° C	DCR $m\Omega$ MAX 25 ° C
WT0650-R13M-HG	0.13	42.0	48.0	1.0	1.4
WT0650-R22M-HG	0.22	30.0	35.0	1.6	2.2
WT0650-R36M-HG	0.36	21.0	25.0	2.7	3.1
WT0650-R47M-HG	0.47	20.0	24.0	3.1	3.5
WT0650-R56M-HG	0.56	18	22.0	3.4	3.6
WT0650-R68M-HG	0.68	16.0	18.0	3.9	4.2
WT0650-R82M-HG	0.82	16.5	19.5	4.6	4.9
WT0650-1R0M-HG	1.0	14.0	18.0	5.6	6.5
WT0650-1R5M-HG	1.5	12.0	15.5	6.0	7.5
WT0650-2R2M-HG	2.2	10.0	14.0	11.2	12.5
WT0650-3R3M-HG	3.3	8.5	12.0	19.9	20.9
WT0650-4R7M-HG	4.7	7.0	10.0	23.0	25.0
WT0650-6R8M-HG	6.8	6.0	9.0	36.5	41.0
WT0650-8R2M-HG	8.2	5.5	7.5	40.0	43.0
WT0650-100M-HG	10.0	4.5	6.5	48.0	55.0
WT0650-330M-HG	33.0	3.0	4.0	150.0	180.0
WT0650-470M-HG	47.0	2.2	3.5	200.0	230.0
WT0650-560M-HG	56.0	1.8	3.0	245.0	280.0

*: you require another part number please contact with us.

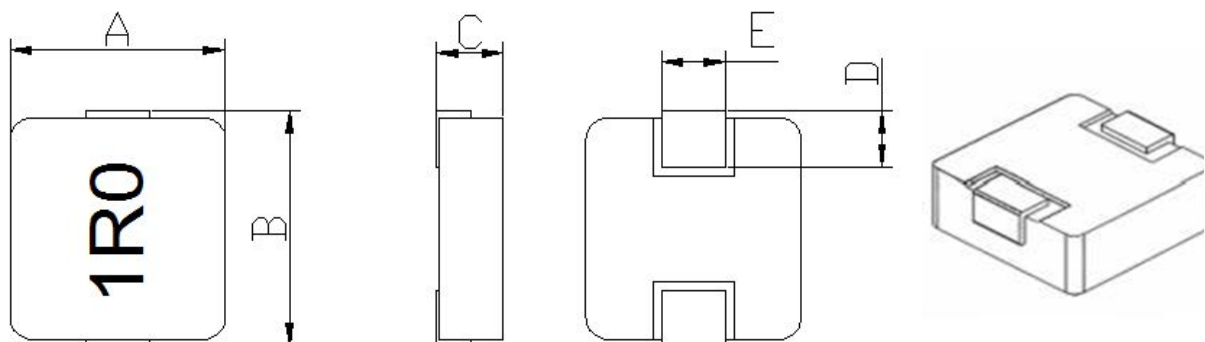
**: Inductance Tolerance $\pm 20\%$

Note 1: All test data is referenced to 25°C ambient.

Note 2: Idc : DC current (A) that will cause an approximate ΔT of 40°C

Note 3: Isat : DC current (A) that will cause Lo to drop approximately 30%

SMD POWER INDUCTORS: WT1040M Series



Series	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
WT1040-1R0M-HG	10.2 ± 0.3	11.0 ± 1.0	4.0MAX	2.0 ± 0.5	3.0 ± 0.3
Part Number	L0 Inductance (μ H) $\pm 20\%$	Heat Rating Current DC Amps.IDC (A)	Saturation Current Part Number DC Amps. Isat (A)	DCR M Ω TYPICAL 25 ° C	DCR m Ω MAX 25 ° C
WT1040-R22M-HG	0.22	35.0	60.0	1.2	1.5
WT1040-R36M-HG	0.36	30.0	50.0	1.7	1.9
WT1040-R47M-HG	0.47	30	40.0	1.9	2.2
WT1040-R56M-HG	0.56	25	33.0	2.1	2.4
WT1040-R68M-HG	0.68	23.0	30.0	2.3	3.0
WT1040-R82M-HG	0.82	20.0	29.0	3.1	3.5
WT1040-1R0M-HG	1.0	18	28.0	3.0	4.0
WT1040-1R5M-HG	1.5	16.0	23.0	4.8	5.4
WT1040-2R2M-HG	2.2	12.0	18.0	7.2	9.0
WT1040-3R3M-HG	3.3	10.0	16.0	10.8	11.8
WT1040-4R7M-HG	4.7	8.5	15.0	17.0	20.0
WT1040-5R6M-HG	5.6	8.0	14.0	20.0	23.0
WT1040-6R8M-HG	6.8	7.0	12.0	22.5	25.0
WT1040-8R2M-HG	8.2	6.0	9.0	30.0	32.0
WT1040-100M-HG	10.0	5.5	8.5	34	37.0
WT1045-150M-HG	15.0	5.0	7.0	50	55.0
WT1045-220M-HG	22.0	4.0	5.5	60	66.0
WT1045-820M-HG	82.0	1.2	2.5	200	230.0

*: you require another part number please contact with us.

**: Inductance Tolerance $\pm 20\%$

Note 1: All test data is referenced to 25°C ambient.

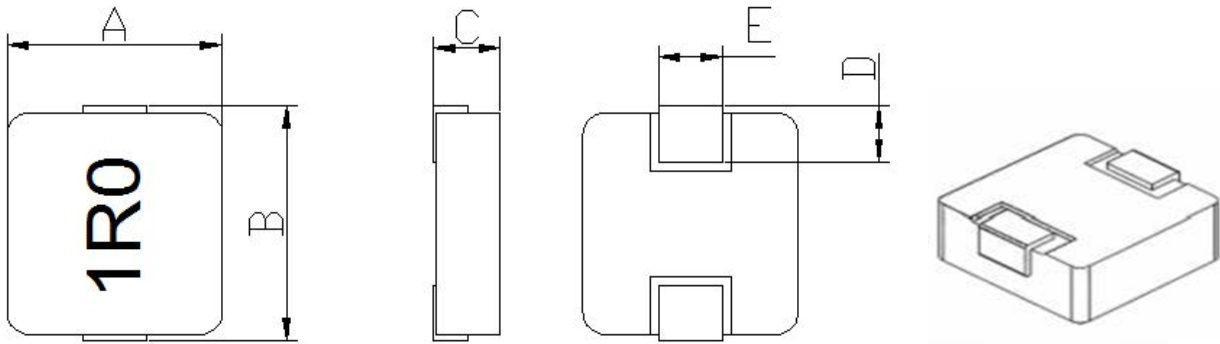
Note 2: Idc : DC current (A) that will cause an approximate ΔT of 40°C

Note 3: Isat : DC current (A) that will cause Lo to drop approximately 30%



ELECTRONIC COMPANY

SMD POWER INDUCTORS: WT1050M Series



Series	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
WT1050-1R0M-HG	10.2 ± 0.3	11.0 ± 1.0	5.0MAX	2.0 ± 0.5	3.0 ± 0.3
Part Number	L0 Inductance (μ H) $\pm 20\%$	Heat Rating Current DC Amps.IDC (A)	Saturation Current Part Number DC Amps. Isat (A)	DCR $m\Omega$ TYPICAL 25 ° C	DCR $m\Omega$ MAX 25 ° C
WT1050-R82M-HG	0.82	22.0	39.0	2.5	3.2
WT1050-1R0M-HG	1.0	20	32.0	2.8	3.5
WT1050-1R2M-HG	1.2	19.5	29.0	2.8	3.5
WT1050-1R5M-HG	1.5	15.0	27.5	3.9	4.8
WT1050-2R2M-HG	2.2	12.0	21.5	6.5	8.2
WT1050-3R3M-HG	3.3	10.0	18.6	9.2	10.8
WT1050-4R7M-HG	4.7	9.5	16.5	12.4	15
WT1050-5R6M-HG	5.6	8.5	15	18.9	20.0
WT1050-6R8M-HG	6.8	8.0	14	20.6	24.0
WT1050-8R2M-HG	8.2	7.0	12.5	27.4	30.0
WT1050-100M-HG	10.0	6.8	11.5	30.2	35.0
WT1050-150M-HG	15.0	5.0	9.0	48.0	52.8
WT1050-220M-HG	22.0	4.5	8.0	50.0	58.0
WT1050-330M-HG	33.0	3.5	6.5	89.0	105.0
WT1050-470M-HG	47.0	3.0	5.0	110.0	130.0
WT1050-680M-HG	68.0	2.0	3.0	171.0	190.0

*: you require another part number please contact with us.

**: Inductance Tolerance $\pm 20\%$

Note 1: All test data is referenced to 25°C ambient.

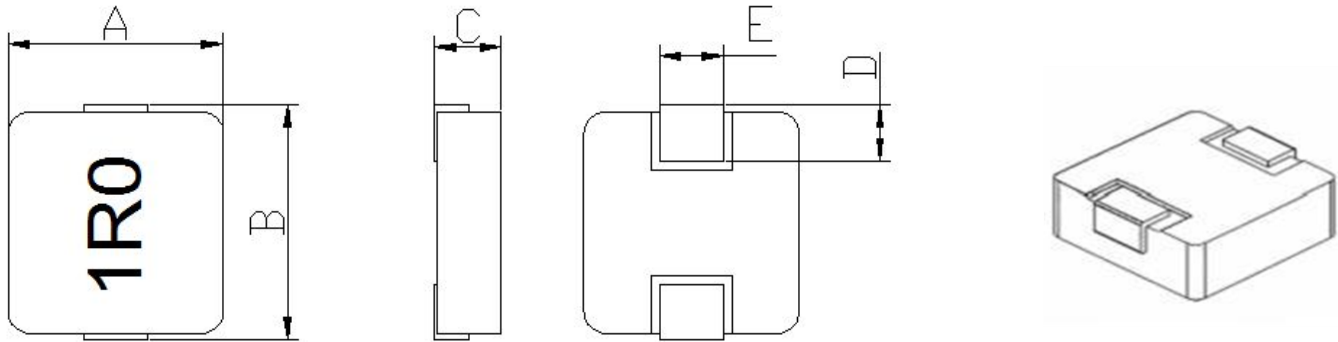
Note 2: Idc : DC current (A) that will cause an approximate ΔT of 40°C

Note 3: Isat : DC current (A) that will cause Lo to drop approximately 30%



ELECTRONIC COMPANY

SMD POWER INDUCTORS: WT1250M Series



Series	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
WT1250-1R0M-HG	12.8 ± 0.5	13.2 ± 1.0	5.0MAX	2.5 ± 0.5	3.8 ± 0.2
Part Number	L0 Inductance (μH) $\pm 20\%$	Heat Rating Current DC Amps.IDC	Saturation Current	DCR MΩ TYPICAL 25 ° C	DCR mΩ MAX 25 ° C
			Part Number DC Amps. Isat (A)		
WT1250-R36M-HG	0.36	41.0	50.0	0.77	1.1
WT1250-R47M-HG	0.47	39.0	45.0	1.1	1.3
WT1250-R56M-HG	0.56	36.0	40.0	1.2	1.5
WT1250-R68M-HG	0.68	34.0	38.0	1.5	1.7
WT1250-R82M-HG	0.82	26.0	35.0	1.8	2.1
WT1250-1R0M-HG	1.0	23.0	32.0	2.1	2.5
WT1250-1R2M-HG	1.2	20.0	30.0	2.6	3.0
WT1250-1R5M-HG	1.5	18.0	27.0	3.4	4.1
WT1250-2R2M-HG	2.2	16.0	25.0	4.6	5.5
WT1250-3R3M-HG	3.3	15.0	24.0	7.7	9.2
WT1250-4R7M-HG	4.7	11.0	21.0	12.8	15.0
WT1250-5R6M-HG	5.6	9.5	18.0	14.3	16.4
WT1250-6R8M-HG	6.8	8.5	15.0	15.4	18.5
WT1250-8R2M-HG	8.2	8.0	13.0	18.9	24.0
WT1250-100M-HG	10.0	7.5	12.5	20.0	25.5

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Note 2: Idc : DC current (A) that will cause an approximate ΔT of 40°C

Note 3: Isat : DC current (A) that will cause Lo to drop approximately 30%



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