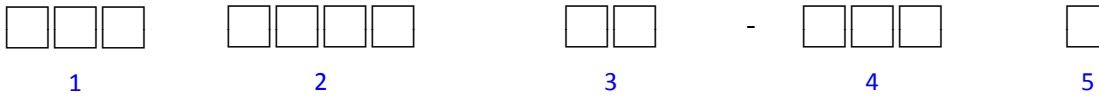


⊕ Features

Shielded construction.
 Frequency range up to 1.0 MHz.
 Lowest DCR / μH , in this package size.

Handles high transient current spikes without saturation.
 Ultra low buzz noise, due to composite constructic

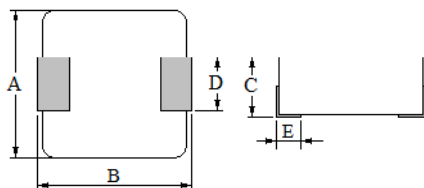
⊕ Product Identification :



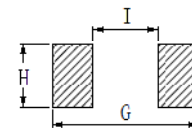
Series name	Dimensions(WxLxH)	Internal code
MPL	0412	4.0*4.5*1.2mm
	0520	4.7*5.3*2.0mm
	0620A	6.0*6.5*2.0mm
	0618	6.6*7.2*1.8mm
	0612M	6.6*7.0*1.2mm
	0850	7.2*7.8*5.0mm
	1040	10.0*11.5*4.0mm
	1235	12.8*13.5*4.0mm
	1770	17.2*18.0*7.2mm

Inductance		Tolerance	
R13	13 nH	J	5%
R22	22 nH	K	10%
R68	68 nH	M	20%
1R0	1 μH	N	30%
100	10 μH		

⊕ Shapes And Dimensions

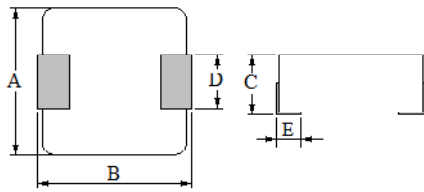


⊕ Recommended PCB Pattern

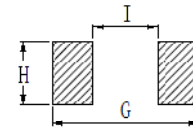


Part No.	Dimensions(mm)								
	A	B	C	D	E	G	H	I	
MPL0412S	4.00	4.50	1.20	1.50	0.80	5.00	2.30	1.70	
	± 0.3	± 0.3	Max.	± 0.3	± 0.3	Ref	Ref	Ref	
MPL0415S	4.00	4.50	1.50	1.50	0.80	5.00	2.30	1.70	
	± 0.3	± 0.3	Max.	± 0.3	± 0.3	Ref	Ref	Ref	
MPL0420S	4.00	4.50	2.00	1.50	0.80	5.00	2.30	1.70	
	± 0.3	± 0.3	Max.	± 0.3	± 0.3	Ref	Ref	Ref	
MPL0520S	4.70	5.30	2.00	2.00	1.00	6.00	2.80	2.00	
	± 0.3	± 0.4	Max.	± 0.50	± 0.50	Ref	Ref	Ref	
MPL0530S	4.70	5.30	3.00	2.00	1.00	6.00	2.80	2.00	
	± 0.3	± 0.4	Max.	± 0.50	± 0.50	Ref	Ref	Ref	
MPL0550S	4.70	5.30	5.00	2.00	1.00	6.00	2.80	2.00	
	± 0.3	± 0.4	Max.	± 0.50	± 0.50	Ref	Ref	Ref	
MPL0620A	6.00	6.50	2.00	2.50	1.30	7.20	3.20	3.00	
	± 0.3	± 0.5	Max.	± 0.50	± 0.50	Ref	Ref	Ref	
MPL0630A	6.00	6.50	3.00	2.50	1.30	7.20	3.20	3.00	
	± 0.3	± 0.5	Max.	± 0.50	± 0.50	Ref	Ref	Ref	
MPL0640A	6.00	6.50	4.00	2.50	1.30	7.20	3.20	3.00	
	± 0.3	± 0.5	Max.	± 0.50	± 0.50	Ref	Ref	Ref	
MPL0618S	6.60	7.20	1.80	3.00	1.60	8.00	3.80	3.70	
	± 0.3	± 0.5	Max.	± 0.50	± 0.50	Ref	Ref	Ref	

⊕ Shapes And Dimensions



⊕ Recommended PCB Pattern



Part No.	Dimensions(mm)								
	A	B	C	D	E		G	H	I
MPL0620S	6.60 ±0.3	7.20 ±0.5	2.00 Max.	3.00 ±0.50	1.60 ±0.50		8.00 Ref	3.80 Ref	3.70 Ref
MPL0624S	6.60 ±0.3	7.20 ±0.5	2.40 Max.	3.00 ±0.50	1.60 ±0.50		8.00 Ref	3.80 Ref	3.70 Ref
MPL0630S \ L	6.60 ±0.3	7.20 ±0.5	3.00 Max.	3.00 ±0.50	1.60 ±0.50		8.00 Ref	3.80 Ref	3.70 Ref
MPL0640S	6.60 ±0.3	7.20 ±0.5	4.00 Max.	3.00 ±0.50	1.60 ±0.50		8.00 Ref	3.80 Ref	3.70 Ref
MPL0650S	6.60 ±0.3	7.20 ±0.5	5.00 Max.	3.00 ±0.50	1.60 ±0.50		8.00 Ref	3.80 Ref	3.70 Ref
MPL0612M	6.60 ±0.3	7.00 ±0.3	1.20 Max.	3.00 ±0.50	1.60 ±0.50		8.00 Ref	3.80 Ref	3.70 Ref
MPL0615M	6.60 ±0.3	7.00 ±0.3	1.50 Max.	3.00 ±0.50	1.60 ±0.50		8.00 Ref	3.80 Ref	3.70 Ref
MPL0618M	6.60 ±0.3	7.00 ±0.3	1.80 Max.	3.00 ±0.50	1.60 ±0.50		8.00 Ref	3.80 Ref	3.70 Ref
MPL0624M	6.60 ±0.3	7.00 ±0.3	2.40 Max.	3.00 ±0.50	1.60 ±0.50		8.00 Ref	3.80 Ref	3.70 Ref
MPL0630M	6.60 ±0.3	7.00 ±0.3	3.00 Max.	3.00 ±0.50	1.60 ±0.50		8.00 Ref	3.80 Ref	3.70 Ref
MPL0850S	7.20 ±0.3	7.80 ±0.5	5.00 Max.	3.00 ±0.50	1.60 ±0.50		8.80 Ref	3.80 Ref	4.00 Ref
MPL1040S	10.00 ±0.5	11.50 ±1.0	4.00 Max.	3.00 ±0.50	2.20 ±0.50		13.00 Ref	3.80 Ref	6.00 Ref
MPL1045S	10.00 ±0.5	11.50 ±1.0	4.50 Max.	3.00 ±0.50	2.20 ±0.50		13.00 Ref	3.80 Ref	6.00 Ref
MPL1050S	10.00 ±0.5	11.50 ±1.0	5.00 Max.	3.00 ±0.50	2.20 ±0.50		13.00 Ref	3.80 Ref	6.00 Ref
MPL1235S	12.80 ±0.5	13.50 ±1.0	3.50 Max.	3.80 ±0.50	2.50 ±0.50		14.50 Ref	5.00 Ref	7.80 Ref
MPL1250S	12.80 ±0.5	13.50 ±1.0	5.00 Max.	3.80 ±0.50	2.50 ±0.50		14.50 Ref	5.00 Ref	7.80 Ref
MPL1250S	12.80 ±0.5	13.50 ±1.0	6.50 Max.	3.80 ±0.50	2.50 ±0.50		14.50 Ref	5.00 Ref	7.80 Ref
MPL1770S	17.20 Max.	18.00 ±0.5	7.20 Max.	11.90 ±0.30	2.70 ±0.50		19.50 Ref	13.00 Ref	11.00 Ref
MPL1770A	17.20 Max.	18.00 ±0.5	7.20 Max.	11.90 ±0.30	2.70 ±0.50		19.50 Ref	13.00 Ref	11.00 Ref

⊕ Electrical Characteristics :

OUR Part No. VISHAY Part No.	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL0412S-R47M IHL1616ABERR47M11	0.47 $\pm 20\%$	4.5 Max.	6 Max.	24 Typ.	30 Max.	100K / 0.1
MPL0412S-R68M	0.68 $\pm 20\%$	3.5 Max.	5 Max.	36 Typ.	41 Max.	100K / 0.1
MPL0412S-1R0M IHL1616ABER1R0M11	1 $\pm 20\%$	2.5 Max.	5 Max.	60 Typ.	79 Max.	100K / 0.1
MPL0412S-1R5M IHL1616ABER1R5M11	1.5 $\pm 20\%$	2 Max.	3.5 Max.	74 Typ.	80 Max.	100K / 0.1
MPL0412S-2R2M IHL1616ABER2R2M11	2.2 $\pm 20\%$	2 Max.	3 Max.	96 Typ.	110 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. VISHAY Part No.	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL0415S-R47M	0.47 $\pm 20\%$	5 Max.	9 Max.	20 Typ.	27 Max.	100K / 0.1
MPL0415S-1R0M	1 $\pm 20\%$	4 Max.	6 Max.	39 Typ.	50 Max.	100K / 0.1
MPL0415S-1R5M	1.5 $\pm 20\%$	3.5 Max.	5.5 Max.	48 Typ.	63 Max.	100K / 0.1
MPL0415S-2R2M	2.2 $\pm 20\%$	2.5 Max.	4 Max.	67 Typ.	86 Max.	100K / 0.1
MPL0415S-3R3M	3.3 $\pm 20\%$	2 Max.	3.5 Max.	116 Typ.	156 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. VISHAY Part No.	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL0420S-R10M IHL1616BZERR10M11	0.1 $\pm 20\%$	12 Max.	25 Max.	5.5 Typ.	8 Max.	100K / 0.1
MPL0420S-R22M IHL1616BZERR22M11	0.22 $\pm 20\%$	10 Max.	14 Max.	6.3 Typ.	10 Max.	100K / 0.1
MPL0420S-R36M	0.36 $\pm 20\%$	8 Max.	11 Max.	8.6 Typ.	12 Max.	100K / 0.1
MPL0420S-R47M IHL1616BZERR47M11	0.47 $\pm 20\%$	7 Max.	9.5 Max.	11 Typ.	14 Max.	100K / 0.1
MPL0420S-R56M	0.56 $\pm 20\%$	6.5 Max.	9 Max.	13 Typ.	20 Max.	100K / 0.1
MPL0420S-1R0M IHL1616BZER1R0M11	1 $\pm 20\%$	4.5 Max.	7 Max.	21 Typ.	28 Max.	100K / 0.1
MPL0420S-1R2M	1.2 $\pm 20\%$	4 Max.	7 Max.	23 Typ.	32 Max.	100K / 0.1
MPL0420S-1R5M IHL1616BZER1R5M11	1.5 $\pm 20\%$	4 Max.	6 Max.	28 Typ.	38 Max.	100K / 0.1
MPL0420S-2R2M IHL1616BZER2R2M11	2.2 $\pm 20\%$	3 Max.	5 Max.	42 Typ.	52 Max.	100K / 0.1
MPL0420S-3R3M	3.3 $\pm 20\%$	2.5 Max.	4 Max.	60 Typ.	80 Max.	100K / 0.1
MPL0420S-4R7M IHL1616BZER4R7M11	4.7 $\pm 20\%$	2 Max.	3 Max.	118 Typ.	150 Max.	100K / 0.1
MPL0420S-5R6M	5.6 $\pm 20\%$	1.8 Max.	2 Max.	126 Typ.	150 Max.	100K / 0.1
MPL0420S-6R8M	6.8 $\pm 20\%$	1.8 Max.	2 Max.	130 Typ.	170 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No.	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL0420S-100M	10 \pm 20%	1.5 Max.	2 Max.	225 Typ.	280 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No.	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL0515S-1R0M	1 \pm 20%	4 Max.	6 Max.	31 Typ.	40 Max.	100K / 0.1
MPL0515S-1R5M	1.5 \pm 20%	3.8 Max.	5.8 Max.	49 Typ.	68 Max.	100K / 0.1
MPL0515S-2R2M	2.2 \pm 20%	3.5 Max.	5.5 Max.	62 Typ.	85 Max.	100K / 0.1
MPL0515S-3R3M	3.3 \pm 20%	3.5 Max.	4.5 Max.	93 Typ.	120 Max.	100K / 0.1
MPL0515S-4R7M	4.7 \pm 20%	2 Max.	3 Max.	156 Typ.	200 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No.	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL0520S-R47M IHLP2020BZERR47M01	0.47 \pm 20%	8 Max.	12.5 Max.	10.5 Typ.	15 Max.	100K / 0.1
MPL0520S-R68M IHLP2020BZERR68M01	0.68 \pm 20%	7 Max.	10 Max.	14 Typ.	20 Max.	100K / 0.1
MPL0520S-1R0M IHLP2020BZER1R0M01	1 \pm 20%	6 Max.	8 Max.	15 Typ.	21 Max.	100K / 0.1
MPL0520S-1R2M	1.2 \pm 20%	5 Max.	8 Max.	17 Typ.	27 Max.	100K / 0.1
MPL0520S-1R5M	1.5 \pm 20%	4 Max.	6 Max.	20 Typ.	26 Max.	100K / 0.1
MPL0520S-2R2M IHLP2020BZER2R2M01	2.2 \pm 20%	3.5 Max.	6 Max.	32 Typ.	42 Max.	100K / 0.1
MPL0520S-3R3M IHLP2020BZER3R3M01	3.3 \pm 20%	3.5 Max.	5.5 Max.	44 Typ.	58 Max.	100K / 0.1
MPL0520S-4R7M IHLP2020BZER4R7M01	4.7 \pm 20%	3.2 Max.	4.5 Max.	68 Typ.	90 Max.	100K / 0.1
MPL0520S-5R6M IHLP2020BZER5R6M01	5.6 \pm 20%	3 Max.	4 Max.	75 Typ.	97 Max.	100K / 0.1
MPL0520S-6R8M IHLP2020BZER6R8M01	6.8 \pm 20%	2 Max.	3.5 Max.	96 Typ.	130 Max.	100K / 0.1
MPL0520S-100M IHLP2020BZER100M01	10 \pm 20%	2 Max.	3 Max.	170 Typ.	221 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No.	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL0530S-R68M	0.68 \pm 20%	8.5 Max.	14 Max.	11 Typ.	12 Max.	100K / 0.1
MPL0530S-1R0M IHLP2020CZER1R0M11	1 \pm 20%	7 Max.	11 Max.	13 Typ.	14 Max.	100K / 0.1
MPL0530S-1R5M IHLP2020CZER1R5M11	1.5 \pm 20%	6 Max.	10 Max.	20 Typ.	25 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9,6+ \$ < 3DUW 1 (μH)	Inductance (μH)	I _{rms} (Amp)	I _{sat} (Amp)	DCR (mΩ)	DCR (mΩ)	Test Frequency (Hz / V)
MPL0530S-2R2M IHL P2020CZER2R2M11	2.2 ± 20%	5.5 Max.	9 Max.	26 Typ.	38 Max.	100K / 0.1
MPL0530S-3R3M IHL P2020CZER3R3M11	3.3 ± 20%	5 Max.	7 Max.	30 Typ.	42 Max.	100K / 0.1
MPL0530S-4R7M IHL P2020CZER4R7M11	4.7 ± 20%	4 Max.	6 Max.	46 Typ.	60 Max.	100K / 0.1
MPL0530S-5R6M IHL P2020CZER5R6M11	5.6 ± 20%	4 Max.	5.5 Max.	62 Typ.	79 Max.	100K / 0.1
MPL0530S-6R8M	6.8 ± 20%	3 Max.	5 Max.	66 Typ.	86 Max.	100K / 0.1
MPL0530S-100M IHL P2020CZER100M11	10 ± 20%	2 Max.	4 Max.	115 Typ.	150 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9,6+ \$ < 3DUW 1 (μH)	Inductance (μH)	I _{rms} (Amp)	I _{sat} (Amp)	DCR (mΩ)	DCR (mΩ)	Test Frequency (Hz / V)
MPL0550S-100M	10 ± 20%	2.5 Max.	4.5 Max.	80 Typ.	103 Max.	100K / 0.1
MPL0550S-150M	15 ± 20%	2 Max.	4 Max.	140 Typ.	180 Max.	100K / 0.1
MPL0550S-220M	22 ± 20%	1.5 Max.	2.5 Max.	180 Typ.	230 Max.	100K / 0.1
MPL0550S-330M	33 ± 20%	1.5 Max.	2 Max.	345 Typ.	445 Max.	100K / 0.1
MPL0550S-470M	47 ± 20%	1 Max.	2 Max.	404 Typ.	527 Max.	100K / 0.1
MPL0550S-560M	56 ± 20%	0.8 Max.	1 Max.	456 Typ.	600 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9,6+ \$ < 3DUW 1 (μH)	Inductance (μH)	I _{rms} (Amp)	I _{sat} (Amp)	DCR (mΩ)	DCR (mΩ)	Test Frequency (Hz / V)
MPL0620A-1R0M	1 ± 20%	6 Max.	8 Max.	14 Typ.	20 Max.	100K / 0.1
MPL0620A-1R5M	1.5 ± 20%	5 Max.	7 Max.	20 Typ.	27 Max.	100K / 0.1
MPL0620A-2R2M	2.2 ± 20%	4 Max.	6 Max.	27 Typ.	35 Max.	100K / 0.1
MPL0620A-3R3M	3.3 ± 20%	3.5 Max.	5 Max.	49 Typ.	65 Max.	100K / 0.1
MPL0620A-4R7M	4.7 ± 20%	3 Max.	4.5 Max.	65 Typ.	90 Max.	100K / 0.1
MPL0620A-6R8M	6.8 ± 20%	2.5 Max.	4 Max.	106 Typ.	139 Max.	100K / 0.1
MPL0620A-100M	10 ± 20%	2 Max.	3.5 Max.	180 Typ.	240 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9,6+ \$ < 3DUW 1 (μH)	Inductance (μH)	I _{rms} (Amp)	I _{sat} (Amp)	DCR (mΩ)	DCR (mΩ)	Test Frequency (Hz / V)
MPL0630A-R68M	0.68 ± 20%	11 Max.	16 Max.	12 Typ.	16 Max.	100K / 0.1
MPL0630A-1R5M	1.5 ± 20%	9 Max.	12 Max.	16 Typ.	22 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9,6+\$ < 3DUW 1R (μH)	Inductance	I _{rms} (Amp)	I _{sat} (Amp)	DCR (mΩ)	DCR (mΩ)	Test Frequency (Hz / V)
MPL0630A-2R2M	2.2 ± 20%	8 Max.	11 Max.	17 Typ.	20 Max.	100K / 0.1
MPL0630A-2R7M	2.7 ± 20%	6 Max.	8 Max.	25 Typ.	34 Max.	100K / 0.1
MPL0630A-3R3M	3.3 ± 20%	5 Max.	7 Max.	32 Typ.	45 Max.	100K / 0.1
MPL0630A-4R7M	4.7 ± 20%	5.5 Max.	7 Max.	34 Typ.	45 Max.	100K / 0.1
MPL0630A-5R6M	5.6 ± 20%	4 Max.	6 Max.	54 Typ.	70 Max.	100K / 0.1
MPL0630A-6R8M	6.8 ± 20%	5 Max.	7 Max.	63 Typ.	84 Max.	100K / 0.1
MPL0630A-100M	10 ± 20%	4 Max.	6 Max.	75 Typ.	100 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9,6+\$ < 3DUW 1R (μH)	Inductance	I _{rms} (Amp)	I _{sat} (Amp)	DCR (mΩ)	DCR (mΩ)	Test Frequency (Hz / V)
MPL0640A-150M	15 ± 20%	3 Max.	4 Max.	96 Typ.	120 Max.	100K / 0.1
MPL0640A-180M	18 ± 20%	2 Max.	3 Max.	120 Typ.	160 Max.	100K / 0.1
MPL0640A-220M	22 ± 20%	2 Max.	3 Max.	125 Typ.	170 Max.	100K / 0.1
MPL0640A-470M	47 ± 20%	1.5 Max.	2 Max.	260 Typ.	345 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9,6+\$ < 3DUW 1R (μH)	Inductance	I _{rms} (Amp)	I _{sat} (Amp)	DCR (mΩ)	DCR (mΩ)	Test Frequency (Hz / V)
MPL0618S-1R0M IHLP2525AHER1R0M01	1 ± 20%	7 Max.	14 Max.	22 Typ.	25 Max.	100K / 0.1
MPL0618S-1R5M IHLP2525AHER1R5M01	1.5 ± 20%	5.5 Max.	12 Max.	32 Typ.	36 Max.	100K / 0.1
MPL0618S-2R2M IHLP2525AHER2R2M01	2.2 ± 20%	4 Max.	11 Max.	41 Typ.	46 Max.	100K / 0.1
MPL0618S-3R3M IHLP2525AHER3R3M01	3.3 ± 20%	3.5 Max.	8 Max.	71 Typ.	80 Max.	100K / 0.1
MPL0618S-4R7M IHLP2525AHER4R7M01	4.7 ± 20%	3.5 Max.	5 Max.	75 Typ.	100 Max.	100K / 0.1
MPL0618S-5R6M	5.6 ± 20%	2.8 Max.	3.8 Max.	99 Typ.	120 Max.	100K / 0.1
MPL0618S-6R8M	6.8 ± 20%	2.8 Max.	3.5 Max.	99 Typ.	120 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9,6+\$ < 3DUW 1R (μH)	Inductance	I _{rms} (Amp)	I _{sat} (Amp)	DCR (mΩ)	DCR (mΩ)	Test Frequency (Hz / V)
MPL0620S-1R0M	1 ± 20%	7 Max.	14 Max.	16 Typ.	21 Max.	100K / 0.1
MPL0620S-1R5M	1.5 ± 20%	7 Max.	10 Max.	17 Typ.	22 Max.	100K / 0.1
MPL0620S-2R2M	2.2 ± 20%	5 Max.	8 Max.	23 Typ.	28 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9,6+<\$<3DUW 1(μH)	Inductance (μH)	I _{rms} (Amp)	I _{sat} (Amp)	DCR (mΩ)	DCR (mΩ)	Test Frequency (Hz / V)
MPL0620S-3R3M	3.3 ± 20%	4 Max.	7 Max.	31 Typ.	39 Max.	100K / 0.1
MPL0620S-4R7M	4.7 ± 20%	3.5 Max.	5.5 Max.	41 Typ.	50 Max.	100K / 0.1
MPL0620S-5R6M	5.6 ± 20%	3 Max.	4.5 Max.	87 Typ.	115 Max.	100K / 0.1
MPL0620S-6R8M	6.8 ± 20%	2.5 Max.	4 Max.	110 Typ.	132 Max.	100K / 0.1
MPL0620S-8R2M	8.2 ± 20%	2.2 Max.	3.5 Max.	168 Typ.	217 Max.	100K / 0.1
MPL0620S-100M	10 ± 20%	2 Max.	3.5 Max.	191 Typ.	220 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9,6+<\$<3DUW 1(μH)	Inductance (μH)	I _{rms} (Amp)	I _{sat} (Amp)	DCR (mΩ)	DCR (mΩ)	Test Frequency (Hz / V)
MPL0624S-1R0M IHLP2525BDER1R0M01	1 ± 20%	9 Max.	12 Max.	11.2 Typ.	13.5 Max.	100K / 0.1
MPL0624S-1R5M IHLP2525BDER1R5M01	1.5 ± 20%	7 Max.	10 Max.	17 Typ.	20 Max.	100K / 0.1
MPL0624S-2R2M IHLP2525BDER2R2M01	2.2 ± 20%	5 Max.	8 Max.	23 Typ.	28 Max.	100K / 0.1
MPL0624S-3R3M IHLP2525BDER3R3M01	3.3 ± 20%	4 Max.	7 Max.	31 Typ.	39 Max.	100K / 0.1
MPL0624S-4R7M IHLP2525BDER4R7M01	4.7 ± 20%	3.5 Max.	5.5 Max.	41 Typ.	50 Max.	100K / 0.1
MPL0624S-100M IHLP2525BDER100M01	10 ± 20%	2 Max.	3.5 Max.	91 Typ.	120 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9,6+<\$<3DUW 1(μH)	Inductance (μH)	I _{rms} (Amp)	I _{sat} (Amp)	DCR (mΩ)	DCR (mΩ)	Test Frequency (Hz / V)
MPL0630S-R10M IHLP2525CZERR10M01	0.1 ± 20%	32.5 Max.	60 Max.	1.5 Typ.	1.7 Max.	100K / 0.1
MPL0630S-R15M IHLP2525CZERR15M01	0.15 ± 20%	26 Max.	52 Max.	1.9 Typ.	2.5 Max.	100K / 0.1
MPL0630S-R20M IHLP2525CZERR20M01	0.2 ± 20%	24 Max.	41 Max.	2.4 Typ.	3 Max.	100K / 0.1
MPL0630S-R22M IHLP2525CZERR22M01	0.22 ± 20%	23 Max.	40 Max.	2.5 Typ.	3 Max.	100K / 0.1
MPL0630S-R33M IHLP2525CZERR33M01	0.33 ± 20%	20 Max.	30 Max.	3.5 Typ.	4 Max.	100K / 0.1
MPL0630S-R47M IHLP2525CZERR47M01	0.47 ± 20%	17.5 Max.	26 Max.	4 Typ.	4.5 Max.	100K / 0.1
MPL0630S-R68M IHLP2525CZERR68M01	0.68 ± 20%	15.5 Max.	25 Max.	5 Typ.	5.5 Max.	100K / 0.1
MPL0630S-R82M IHLP2525CZERR82M01	0.82 ± 20%	13 Max.	24 Max.	6.7 Typ.	8 Max.	100K / 0.1
MPL0630S-1R0M IHLP2525CZER1R0M01	1 ± 20%	11 Max.	22 Max.	9 Typ.	10 Max.	100K / 0.1
MPL0630S-1R5M IHLP2525CZER1R5M01	1.5 ± 20%	9 Max.	18 Max.	14 Typ.	15.5 Max.	100K / 0.1
MPL0630S-2R2M IHLP2525CZER2R2M01	2.2 ± 20%	8 Max.	14 Max.	18 Typ.	20 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9, 6 + \$ < 3 D U W 1 (μH)	Inductance (μH)	Irms (Amp)	Isat (Amp)	DCR (mΩ)	DCR (mΩ)	Test Frequency (Hz / V)
MPL0630S-3R3M IHLP2525CZER3R3M01	3.3 ± 20%	6 Max.	13.5 Max.	28 Typ.	32 Max.	100K / 0.1
MPL0630S-4R7M IHLP2525CZER4R7M01	4.7 ± 20%	5.5 Max.	10 Max.	37 Typ.	40 Max.	100K / 0.1
MPL0630S-5R6M	5.6 ± 20%	5 Max.	8 Max.	47 Typ.	60 Max.	100K / 0.1
MPL0630S-6R8M IHLP2525CZER6R8M01	6.8 ± 20%	4.5 Max.	8 Max.	54 Typ.	60 Max.	100K / 0.1
MPL0630S-8R2M IHLP2525CZER8R2M01	8.2 ± 20%	4 Max.	7.5 Max.	64 Typ.	68 Max.	100K / 0.1
MPL0630S-100M IHLP2525CZER100M01	10 ± 20%	3 Max.	7 Max.	102 Typ.	105 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9, 6 + \$ < 3 D U W 1 (μH)	Inductance (μH)	Irms (Amp)	Isat (Amp)	DCR (mΩ)	DCR (mΩ)	Test Frequency (Hz / V)
MPL0630L-1R0M IHLP2525CZER1R0M11	0.1 ± 20%	12.5 Max.	9.5 Max.	7.6 Typ.	8.5 Max.	100K / 0.1
MPL0630L-1R5M	1.5 ± 20%	10.5 Max.	8 Max.	11.7 Typ.	13.5 Max.	100K / 0.1
MPL0630L-2R2M IHLP2525CZER2R2M11	2.2 ± 20%	9 Max.	7 Max.	15.7 Typ.	17 Max.	100K / 0.1
MPL0630L-3R3M IHLP2525CZER3R3M11	3.3 ± 20%	7 Max.	6.5 Max.	24.8 Typ.	26.8 Max.	100K / 0.1
MPL0630L-4R7M IHLP2525CZER4R7M11	4.7 ± 20%	6 Max.	4 Max.	31.8 Typ.	34 Max.	100K / 0.1
MPL0630L-6R8M IHLP2525CZER6R8M11	6.8 ± 20%	5.5 Max.	4 Max.	44.8 Typ.	46.8 Max.	100K / 0.1
MPL0630L-8R2M IHLP2525CZER8R2M11	8.2 ± 20%	5 Max.	4 Max.	52.3 Typ.	57 Max.	100K / 0.1
MPL0630L-100M IHLP2525CZER100M11	10 ± 20%	4 Max.	3.5 Max.	67.8 Typ.	72 Max.	100K / 0.1
MPL0635L-220M IHLP2525CZER220M11	22 ± 20%	2.9 Max.	2.5 Max.	128.9 Typ.	135 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9, 6 + \$ < 3 D U W 1 (μH)	Inductance (μH)	Irms (Amp)	Isat (Amp)	DCR (mΩ)	DCR (mΩ)	Test Frequency (Hz / V)
MPL0640S-R33M	0.33 ± 20%	20 Max.	30 Max.	2 Typ.	2.5 Max.	100K / 0.1
MPL0640S-R56M	0.56 ± 20%	17 Max.	25 Max.	3.6 Typ.	4.5 Max.	100K / 0.1
MPL0640S-R68M	0.68 ± 20%	13 Max.	15 Max.	3.8 Typ.	4.5 Max.	100K / 0.1
MPL0640S-1R5M	1.5 ± 20%	10 Max.	19 Max.	13.5 Typ.	16 Max.	100K / 0.1
MPL0640S-2R2M	2.2 ± 20%	8.5 Max.	16 Max.	15 Typ.	18 Max.	100K / 0.1
MPL0640S-3R3M	3.3 ± 20%	7 Max.	13 Max.	21 Typ.	25 Max.	100K / 0.1
MPL0640S-4R7M	4.7 ± 20%	6 Max.	10 Max.	23 Typ.	30 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9,6+\$ < 3DUW 1R	Inductance (μ H)	I _{rms} (Amp)	I _{sat} (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL0650S-R36M	0.36 $\pm 20\%$	21 Max.	25 Max.	3.2 Typ.	3.5 Max.	100K / 0.1
MPL0650S-R56M	0.56 $\pm 20\%$	20 Max.	18 Max.	3.4 Typ.	3.6 Max.	100K / 0.1
MPL0650S-R68M	0.68 $\pm 20\%$	18 Max.	17 Max.	3.9 Typ.	4.2 Max.	100K / 0.1
MPL0650S-R82M	0.82 $\pm 20\%$	16.5 Max.	16 Max.	4.6 Typ.	4.9 Max.	100K / 0.1
MPL0650S-1R0M	1 $\pm 20\%$	13 Max.	15 Max.	5.6 Typ.	6.5 Max.	100K / 0.1
MPL0650S-1R5M	1.5 $\pm 20\%$	8 Max.	14 Max.	8.5 Typ.	12 Max.	100K / 0.1
MPL0650S-2R2M	2.2 $\pm 20\%$	8 Max.	12 Max.	11.2 Typ.	12.5 Max.	100K / 0.1
MPL0650S-3R3M	3.3 $\pm 20\%$	7 Max.	8 Max.	19.9 Typ.	20.9 Max.	100K / 0.1
MPL0650S-4R7M	4.7 $\pm 20\%$	6.5 Max.	7 Max.	23 Typ.	25 Max.	100K / 0.1
MPL0650S-6R8M	6.8 $\pm 20\%$	5 Max.	9 Max.	33 Typ.	45 Max.	100K / 0.1
MPL0650S-100M	10 $\pm 20\%$	4 Max.	5.3 Max.	61 Typ.	80 Max.	100K / 0.1
MPL0650S-150M	15 $\pm 20\%$	2.5 Max.	4 Max.	90 Typ.	120 Max.	100K / 0.1
MPL0650S-220M	22 $\pm 20\%$	2.2 Max.	4 Max.	108 Typ.	140 Max.	100K / 0.1
MPL0650S-330M	33 $\pm 20\%$	2 Max.	4 Max.	160 Typ.	210 Max.	100K / 0.1
MPL0650S-470M	47 $\pm 20\%$	2 Max.	3 Max.	192 Typ.	247 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9,6+\$ < 3DUW 1R	Inductance (μ H)	I _{rms} (Amp)	I _{sat} (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL0612M-R56M	0.56 $\pm 20\%$	8 Max.	11 Max.	13.5 Typ.	15.5 Max.	100K / 0.1
MPL0612M-R68M	0.68 $\pm 20\%$	7 Max.	9 Max.	15 Typ.	17.5 Max.	100K / 0.1
MPL0612M-1R0M	1 $\pm 20\%$	6 Max.	7.5 Max.	25 Typ.	29 Max.	100K / 0.1
MPL0612M-2R2M	2.2 $\pm 20\%$	4 Max.	5 Max.	51 Typ.	58 Max.	100K / 0.1
MPL0612M-3R3M	3.3 $\pm 20\%$	3.5 Max.	4 Max.	80 Typ.	92 Max.	100K / 0.1
MPL0612M-4R7M	4.7 $\pm 20\%$	3 Max.	3.5 Max.	106 Typ.	122 Max.	100K / 0.1
MPL0612M-6R8M	6.8 $\pm 20\%$	2.5 Max.	2.8 Max.	185 Typ.	210 Max.	100K / 0.1
MPL0612M-100M	10 $\pm 20\%$	2 Max.	2.2 Max.	250 Typ.	280 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No.	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL0615M-R33M	0.33 $\pm 20\%$	11 Max.	19.5 Max.	6.8 Typ.	7.8 Max.	100K / 0.1
MPL0615M-R68M	0.68 $\pm 20\%$	9.5 Max.	12 Max.	10.5 Typ.	12 Max.	100K / 0.1
MPL0615M-R82M	0.82 $\pm 20\%$	8 Max.	10 Max.	15 Typ.	17 Max.	100K / 0.1
MPL0615M-1R0M	1 $\pm 20\%$	6.5 Max.	9 Max.	18.5 Typ.	21 Max.	100K / 0.1
MPL0615M-2R2M	2.2 $\pm 20\%$	4.2 Max.	6 Max.	46 Typ.	54 Max.	100K / 0.1
MPL0615M-3R3M	3.3 $\pm 20\%$	3.8 Max.	5.5 Max.	54 Typ.	63 Max.	100K / 0.1
MPL0615M-4R7M	4.7 $\pm 20\%$	3.5 Max.	5 Max.	76 Typ.	85 Max.	100K / 0.1
MPL0615M-100M	10 $\pm 20\%$	2.3 Max.	3 Max.	165 Typ.	175 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No.	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL0618M-R22M	0.22 $\pm 20\%$	15 Max.	29 Max.	2 Typ.	2.5 Max.	100K / 0.1
MPL0618M-R33M	0.33 $\pm 20\%$	12.5 Max.	22 Max.	5.2 Typ.	6.8 Max.	100K / 0.1
MPL0618M-R47M	0.47 $\pm 20\%$	11.5 Max.	18 Max.	7.3 Typ.	8.4 Max.	100K / 0.1
MPL0618M-R68M	0.68 $\pm 20\%$	9.5 Max.	17 Max.	10.8 Typ.	12.7 Max.	100K / 0.1
MPL0618M-1R0M	1 $\pm 20\%$	8 Max.	14 Max.	14.5 Typ.	17 Max.	100K / 0.1
MPL0618M-1R5M	1.5 $\pm 20\%$	7.5 Max.	13 Max.	20 Typ.	26 Max.	100K / 0.1
MPL0618M-2R2M	2.2 $\pm 20\%$	7 Max.	12 Max.	31 Typ.	35 Max.	100K / 0.1
MPL0618M-3R3M	3.3 $\pm 20\%$	4.5 Max.	10 Max.	56 Typ.	60 Max.	100K / 0.1
MPL0618M-4R7M	4.7 $\pm 20\%$	4 Max.	5 Max.	68 Typ.	70 Max.	100K / 0.1
MPL0618M-6R8M	6.8 $\pm 20\%$	3 Max.	3.5 Max.	101 Typ.	110 Max.	100K / 0.1
MPL0618M-8R2M	8.2 $\pm 20\%$	2.5 Max.	3 Max.	120 Typ.	135 Max.	100K / 0.1
MPL0618M-100M	10 $\pm 20\%$	2.3 Max.	2.5 Max.	140 Typ.	155 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No.	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL0624M-R22M	0.22 $\pm 20\%$	21 Max.	34 Max.	2.5 Typ.	3 Max.	100K / 0.1
MPL0624M-R33M	0.33 $\pm 20\%$	18 Max.	24.5 Max.	3.5 Typ.	4.1 Max.	100K / 0.1
MPL0624M-R47M	0.47 $\pm 20\%$	15 Max.	22 Max.	4.5 Typ.	5.1 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No.	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL0624M-R56M	0.56 $\pm 20\%$	13 Max.	17 Max.	5.5 Typ.	6.5 Max.	100K / 0.1
MPL0624M-R68M	0.68 $\pm 20\%$	12 Max.	16 Max.	6.2 Typ.	7 Max.	100K / 0.1
MPL0624M-1R0M	1 $\pm 20\%$	9 Max.	16 Max.	11 Typ.	13.5 Max.	100K / 0.1
MPL0624M-1R5M	1.5 $\pm 20\%$	9 Max.	15 Max.	17 Typ.	20 Max.	100K / 0.1
MPL0624M-2R2M	2.2 $\pm 20\%$	7 Max.	14 Max.	23 Typ.	28 Max.	100K / 0.1
MPL0624M-3R3M	3.3 $\pm 20\%$	5.5 Max.	13 Max.	31 Typ.	39 Max.	100K / 0.1
MPL0624M-4R7M	4.7 $\pm 20\%$	5 Max.	10 Max.	41 Typ.	50 Max.	100K / 0.1
MPL0624M-6R8M	6.8 $\pm 20\%$	4 Max.	6 Max.	57 Typ.	70 Max.	100K / 0.1
MPL0624M-100M	10 $\pm 20\%$	3.1 Max.	4 Max.	92 Typ.	101 Max.	100K / 0.1
MPL0624M-150M	15 $\pm 20\%$	2.5 Max.	3.3 Max.	145 Typ.	160 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No.	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL0630M-R22M	0.22 $\pm 20\%$	24 Max.	34 Max.	2.5 Typ.	3 Max.	100K / 0.1
MPL0630M-R33M	0.33 $\pm 20\%$	22 Max.	25 Max.	3 Typ.	3.5 Max.	100K / 0.1
MPL0630M-R47M	0.47 $\pm 20\%$	18 Max.	20 Max.	3.5 Typ.	4.1 Max.	100K / 0.1
MPL0630M-R56M	0.56 $\pm 20\%$	16.5 Max.	18 Max.	3.9 Typ.	4.5 Max.	100K / 0.1
MPL0630M-R68M	0.68 $\pm 20\%$	16 Max.	17 Max.	4.8 Typ.	5.3 Max.	100K / 0.1
MPL0630M-1R0M	1 $\pm 20\%$	14 Max.	15 Max.	6.7 Typ.	7.4 Max.	100K / 0.1
MPL0630M-1R5M	1.5 $\pm 20\%$	12 Max.	14 Max.	10.6 Typ.	12.1 Max.	100K / 0.1
MPL0630M-2R2M	2.2 $\pm 20\%$	9 Max.	10 Max.	13.5 Typ.	15 Max.	100K / 0.1
MPL0630M-3R3M	3.3 $\pm 20\%$	8.5 Max.	9.5 Max.	18 Typ.	22 Max.	100K / 0.1
MPL0630M-4R7M	4.7 $\pm 20\%$	6 Max.	6.5 Max.	28 Typ.	33 Max.	100K / 0.1
MPL0630M-6R8M	6.8 $\pm 20\%$	5.5 Max.	6 Max.	42.5 Typ.	48 Max.	100K / 0.1
MPL0630M-8R2M	8.2 $\pm 20\%$	4.5 Max.	6 Max.	54 Typ.	60 Max.	100K / 0.1
MPL0630M-100M	10 $\pm 20\%$	4.5 Max.	5.5 Max.	62 Typ.	67 Max.	100K / 0.1
MPL0630M-150M	15 $\pm 20\%$	4.5 Max.	5.5 Max.	104 Typ.	115 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No.	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL0850S-2R2M	2.2 $\pm 20\%$	9 Max.	14 Max.	10 Typ.	12 Max.	100K / 0.1
MPL0850S-6R8M	6.8 $\pm 20\%$	5.5 Max.	8 Max.	23 Typ.	30 Max.	100K / 0.1
MPL0850S-100M	10 $\pm 20\%$	4.8 Max.	7 Max.	37 Typ.	65 Max.	100K / 0.1
MPL0850S-220M	22 $\pm 20\%$	3 Max.	5 Max.	107 Typ.	140 Max.	100K / 0.1
MPL0850S-270M	27 $\pm 20\%$	3 Max.	4.5 Max.	140 Typ.	182 Max.	100K / 0.1
MPL0850S-330M	33 $\pm 20\%$	2 Max.	4 Max.	194 Typ.	237 Max.	100K / 0.1
MPL0850S-470M	47 $\pm 20\%$	2 Max.	3 Max.	206 Typ.	247 Max.	100K / 0.1
MPL0850S-560M	56 $\pm 20\%$	1.8 Max.	3 Max.	240 Typ.	310 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No.	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL1040S-R36M IHLP4040DZERR36M11	0.36 $\pm 20\%$	30 Max.	50 Max.	1.05 Typ.	1.2 Max.	100K / 0.1
MPL1040S-R47M IHLP4040DZERR47M11	0.47 $\pm 20\%$	25 Max.	37 Max.	1.2 Typ.	1.8 Max.	100K / 0.1
MPL1040S-R56M IHLP4040DZERR56M11	0.56 $\pm 20\%$	25 Max.	33 Max.	1.6 Typ.	2.3 Max.	100K / 0.1
MPL1040S-R68M	0.68 $\pm 20\%$	18 Max.	30 Max.	2 Typ.	3 Max.	100K / 0.1
MPL1040S-1R0M IHLP4040DZER1R0M11	1 $\pm 20\%$	18 Max.	28 Max.	3 Typ.	3.5 Max.	100K / 0.1
MPL1040S-1R5M	1.5 $\pm 20\%$	16 Max.	25 Max.	5 Typ.	5.8 Max.	100K / 0.1
MPL1040S-2R2M	2.2 $\pm 20\%$	12 Max.	18 Max.	7 Typ.	9 Max.	100K / 0.1
MPL1040S-3R3M	3.3 $\pm 20\%$	10 Max.	14 Max.	10.8 Typ.	12.8 Max.	100K / 0.1
MPL1040S-4R7M IHLP4040DZER4R7M11	4.7 $\pm 20\%$	8 Max.	14 Max.	15 Typ.	18 Max.	100K / 0.1
MPL1040S-5R6M	5.6 $\pm 20\%$	7.5 Max.	14 Max.	20 Typ.	23 Max.	100K / 0.1
MPL1040S-6R8M IHLP4040DZER6R8M11	6.8 $\pm 20\%$	6.5 Max.	9 Max.	22.5 Typ.	25 Max.	100K / 0.1
MPL1040S-100M IHLP4040DZER100M11	10 $\pm 20\%$	6 Max.	8 Max.	27.5 Typ.	35 Max.	100K / 0.1
MPL1040S-150M IHLP4040DZER150M11	15 $\pm 20\%$	3.6 Max.	6 Max.	53 Typ.	70 Max.	100K / 0.1
MPL1040S-220M IHLP4040DZER220M11	22 $\pm 20\%$	4 Max.	6 Max.	73 Typ.	92 Max.	100K / 0.1
MPL1040S-330M IHLP4040DZER330M11	33 $\pm 20\%$	3 Max.	5 Max.	136 Typ.	177 Max.	100K / 0.1
MPL1040S-470M IHLP4040DZER470M11	47 $\pm 20\%$	3 Max.	4.5 Max.	145 Typ.	180 Max.	100K / 0.1
MPL1040S-101M IHLP4040DZER101M11	100 $\pm 20\%$	2.5 Max.	2.25 Max.	249 Typ.	270 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No.	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL1045S-1R0M	1 \pm 20%	22 Max.	34 Max.	2.7 Typ.	3.2 Max.	100K / 0.1
MPL1045S-2R2M	2.2 \pm 20%	14 Max.	16 Max.	5.8 Typ.	7 Max.	100K / 0.1
MPL1045S-3R3M	3.3 \pm 20%	11 Max.	14.5 Max.	11 Typ.	13.2 Max.	100K / 0.1
MPL1045S-4R7M	4.7 \pm 20%	10 Max.	13 Max.	13.2 Typ.	15 Max.	100K / 0.1
MPL1045S-5R6M	5.6 \pm 20%	8.5 Max.	10.5 Max.	16 Typ.	18.5 Max.	100K / 0.1
MPL1045S-6R8M	6.8 \pm 20%	7.5 Max.	9.5 Max.	21.5 Typ.	24 Max.	100K / 0.1
MPL1045S-330M	33 \pm 20%	3 Max.	5 Max.	77 Typ.	101 Max.	100K / 0.1
MPL1045S-470M	47 \pm 20%	3 Max.	4 Max.	160 Typ.	210 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No.	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL1050S-5R2M	5.2 \pm 20%	5.5 Max.	10 Max.	16 Typ.	21 Max.	100K / 0.1
MPL1050S-150M	15 \pm 20%	3.6 Max.	6 Max.	39 Typ.	52 Max.	100K / 0.1
MPL1050S-220M	22 \pm 20%	4 Max.	6 Max.	73 Typ.	92 Max.	100K / 0.1
MPL1050S-330M	33 \pm 20%	3 Max.	5 Max.	107 Typ.	120 Max.	100K / 0.1
MPL1050S-470M	47 \pm 20%	3 Max.	4 Max.	160 Typ.	210 Max.	100K / 0.1
MPL1050S-680M	68 \pm 20%	3 Max.	4 Max.	240 Typ.	300 Max.	100K / 0.1
MPL1050S-101M	100 \pm 20%	2 Max.	3 Max.	320 Typ.	400 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No.	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL1235S-R22M IHLP5050CEERR22M01	0.22 \pm 20%	38 Max.	65 Max.	1.1 Typ.	1.3 Max.	100K / 0.1
MPL1235S-R33M IHLP5050CEERR33M01	0.33 \pm 20%	36.5 Max.	62 Max.	1.3 Typ.	1.5 Max.	100K / 0.1
MPL1235S-R39M	0.39 \pm 20%	34 Max.	60 Max.	1.1 Typ.	1.3 Max.	100K / 0.1
MPL1235S-R47M IHLP5050CEERR47M01	0.47 \pm 20%	32 Max.	55 Max.	1.7 Typ.	2 Max.	100K / 0.1
MPL1235S-R56M	0.56 \pm 20%	29 Max.	51 Max.	1.8 Typ.	2.2 Max.	100K / 0.1
MPL1235S-R62M IHLP5050CEERR60M01	0.62 \pm 20%	29 Max.	51 Max.	1.8 Typ.	2.2 Max.	100K / 0.1
MPL1235S-R68M IHLP5050CEERR68M01	0.68 \pm 20%	28 Max.	49 Max.	2.3 Typ.	2.5 Max.	100K / 0.1
MPL1235S-1R0M IHLP5050CEER1R0M01	1 \pm 20%	24 Max.	40 Max.	3.3 Typ.	3.5 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9, 6 + \$ < 3 D U W 1 R	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL1235S-1R5M IHLP5050CEER1R5M01	1.5 $\pm 20\%$	19 Max.	35 Max.	5.1 Typ.	5.5 Max.	100K / 0.1
MPL1235S-2R2M IHLP5050CEER2R2M01	2.2 $\pm 20\%$	16 Max.	29 Max.	7.2 Typ.	8 Max.	100K / 0.1
MPL1235S-3R3M IHLP5050CEER3R3M01	3.3 $\pm 20\%$	12 Max.	27 Max.	10 Typ.	12 Max.	100K / 0.1
MPL1235S-4R7M IHLP5050CEER4R7M01	4.7 $\pm 20\%$	11 Max.	20 Max.	17 Typ.	26 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9, 6 + \$ < 3 D U W 1 R	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL1250S-R22M	0.22 $\pm 20\%$	51 Max.	110 Max.	0.64 Typ.	0.8 Max.	100K / 0.1
MPL1250S-R33M	0.33 $\pm 20\%$	42 Max.	80 Max.	0.85 Typ.	1.1 Max.	100K / 0.1
MPL1250S-R36M	0.36 $\pm 20\%$	41 Max.	75 Max.	0.77 Typ.	1.1 Max.	100K / 0.1
MPL1250S-R47M IHLP5050EZERR47M01	0.47 $\pm 20\%$	38 Max.	65 Max.	1.1 Typ.	1.3 Max.	100K / 0.1
MPL1250S-R56M IHLP5050EZERR56M01	0.56 $\pm 20\%$	36 Max.	55 Max.	1.2 Typ.	1.5 Max.	100K / 0.1
MPL1250S-R68M IHLP5050EZRR68M01	0.68 $\pm 20\%$	34 Max.	54 Max.	1.5 Typ.	1.7 Max.	100K / 0.1
MPL1250S-R82M IHLP5050EZRR82M01	0.82 $\pm 20\%$	31 Max.	53 Max.	1.8 Typ.	2.1 Max.	100K / 0.1
MPL1250S-1R0M IHLP5050EZR1R0M01	1 $\pm 20\%$	29 Max.	50 Max.	2.1 Typ.	2.5 Max.	100K / 0.1
MPL1250S-1R2M	1.2 $\pm 20\%$	25 Max.	49 Max.	2.6 Typ.	3 Max.	100K / 0.1
MPL1250S-1R5M IHLP5050EZER1R5M01	1.5 $\pm 20\%$	23 Max.	48 Max.	3.4 Typ.	4.1 Max.	100K / 0.1
MPL1250S-2R2M IHLP5050EZER2R2M01	2.2 $\pm 20\%$	20 Max.	32 Max.	4.6 Typ.	5.5 Max.	100K / 0.1
MPL1250S-3R3M IHLP5050EZER3R3M01	3.3 $\pm 20\%$	15 Max.	32 Max.	7.7 Typ.	9.2 Max.	100K / 0.1
MPL1250S-4R7M IHLP5050EZER4R7M01	4.7 $\pm 20\%$	12 Max.	27 Max.	12.8 Typ.	15 Max.	100K / 0.1
MPL1250S-6R8M IHLP5050EZER6R8M01	6.8 $\pm 20\%$	11 Max.	21 Max.	15.4 Typ.	18.5 Max.	100K / 0.1
MPL1250S-100M IHLP5050EZER100M01	10 $\pm 20\%$	7 Max.	11 Max.	21 Typ.	28 Max.	100K / 0.1
MPL1250S-150M	15 $\pm 20\%$	6 Max.	9 Max.	32 Typ.	41 Max.	100K / 0.1
MPL1250S-220M	22 $\pm 20\%$	4 Max.	6 Max.	51 Typ.	66 Max.	100K / 0.1
MPL1250S-330M	33 $\pm 20\%$	4 Max.	6 Max.	65 Typ.	84 Max.	100K / 0.1
MPL1250S-470M	47 $\pm 20\%$	3 Max.	5 Max.	85 Typ.	110 Max.	100K / 0.1
MPL1250S-560M	56 $\pm 20\%$	2 Max.	4 Max.	143 Typ.	190 Max.	100K / 0.1
MPL1250S-680M	68 $\pm 20\%$	1.5 Max.	3.5 Max.	154 Typ.	200 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No.	Inductance	Irms	Isat	DCR	DCR	Test Frequency
9, 6 + \$ < 3 D U W 1 R	(μ H)	(Amp)	(Amp)	(m Ω)	(m Ω)	(Hz / V)
MPL1265S-R10M IHLP5050FDERR10M01	0.1 $\pm 20\%$	60 Max.	120 Max.	0.47 Typ.	0.52 Max.	100K / 0.1
MPL1265S-R15M IHLP5050FDERR15M01	0.15 $\pm 20\%$	55 Max.	118 Max.	0.53 Typ.	0.6 Max.	100K / 0.1
MPL1265S-R22M IHLP5050FDERR22M01	0.22 $\pm 20\%$	38 Max.	65 Max.	1.1 Typ.	1.3 Max.	100K / 0.1
MPL1265S-R30M IHLP5050FDERR30M01	0.3 $\pm 20\%$	48 Max.	72 Max.	0.7 Typ.	0.8 Max.	100K / 0.1
MPL1265S-R33M IHLP5050FDERR33M01	0.33 $\pm 20\%$	36.5 Max.	62 Max.	1.3 Typ.	1.5 Max.	100K / 0.1
MPL1265S-R36M	0.36 $\pm 20\%$	34 Max.	60 Max.	1.1 Typ.	1.3 Max.	100K / 0.1
MPL1265S-R40M IHLP5050FDERR40M01	0.4 $\pm 20\%$	44 Max.	64 Max.	0.9 Typ.	1 Max.	100K / 0.1
MPL1265S-R47M IHLP5050FDERR47M01	0.47 $\pm 20\%$	41 Max.	63 Max.	1 Typ.	1.2 Max.	100K / 0.1
MPL1265S-R56M IHLP5050FDERR56M01	0.56 $\pm 20\%$	37 Max.	62 Max.	1.2 Typ.	1.4 Max.	100K / 0.1
MPL1265S-R68M IHLP5050FDERR68M01	0.68 $\pm 20\%$	35 Max.	60 Max.	1.4 Typ.	1.6 Max.	100K / 0.1
MPL1265S-R80M	0.8 $\pm 20\%$	32 Max.	55 Max.	1.7 Typ.	2 Max.	100K / 0.1
MPL1265S-R82M IHLP5050FDERR82M01	0.82 $\pm 20\%$	33 Max.	50 Max.	1.6 Typ.	1.9 Max.	100K / 0.1
MPL1265S-1R0M IHLP5050FDER1R0M01	1 $\pm 20\%$	32 Max.	49 Max.	1.7 Typ.	2 Max.	100K / 0.1
MPL1265S-1R2M IHLP5050FDER1R2M01	1.2 $\pm 20\%$	30 Max.	48 Max.	2.1 Typ.	2.5 Max.	100K / 0.1
MPL1265S-1R5M IHLP5050FDER1R5M01	1.5 $\pm 20\%$	27 Max.	45 Max.	2.5 Typ.	3 Max.	100K / 0.1
MPL1265S-1R8M IHLP5050FDER1R8M01	1.8 $\pm 20\%$	24 Max.	41 Max.	2.8 Typ.	3.2 Max.	100K / 0.1
MPL1265S-2R2M IHLP5050FDER2R2M01	2.2 $\pm 20\%$	17 Max.	26 Max.	4.7 Typ.	6.1 Max.	100K / 0.1
MPL1265S-3R3M IHLP5050FDER3R3M01	3.3 $\pm 20\%$	15 Max.	27 Max.	5.9 Typ.	7.1 Max.	100K / 0.1
MPL1265S-4R7M IHLP5050FDER4R7M01	4.7 $\pm 20\%$	13.5 Max.	30 Max.	9.3 Typ.	11.2 Max.	100K / 0.1
MPL1265S-5R6M IHLP5050FDER5R6M01	5.6 $\pm 20\%$	12 Max.	24 Max.	9 Typ.	12 Max.	100K / 0.1
MPL1265S-6R8M IHLP5050FDER6R8M01	6.8 $\pm 20\%$	11.5 Max.	16.5 Max.	13.1 Typ.	14 Max.	100K / 0.1
MPL1265S-7R8M	7.8 $\pm 20\%$	10 Max.	17 Max.	13.5 Typ.	17 Max.	100K / 0.1
MPL1265S-8R2M IHLP5050FDER8R2M01	8.2 $\pm 20\%$	10.5 Max.	16 Max.	14.5 Typ.	15.5 Max.	100K / 0.1
MPL1265S-100M IHLP5050FDER100M01	10 $\pm 20\%$	8 Max.	12 Max.	15 Typ.	18 Max.	100K / 0.1
MPL1265S-150M	15 $\pm 20\%$	6 Max.	9 Max.	30.5 Typ.	38 Max.	100K / 0.1
MPL1265S-180M	18 $\pm 20\%$	7 Max.	9.5 Max.	28 Typ.	31 Max.	100K / 0.1
MPL1265S-220M	22 $\pm 20\%$	5 Max.	8 Max.	33.5 Typ.	36 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9, 6 + \$ < 3 D U W 1 (µH)	Inductance (µH)	Irms (Amp)	Isat (Amp)	DCR (mΩ)	DCR (mΩ)	Test Frequency (Hz / V)
MPL1265S-330M	33 ± 20%	4 Max.	6 Max.	48 Typ.	57 Max.	100K / 0.1
MPL1265S-470M	47 ± 20%	3.5 Max.	5 Max.	57.5 Typ.	75 Max.	100K / 0.1
MPL1265S-560M	56 ± 20%	3.2 Max.	4.5 Max.	74 Typ.	95 Max.	100K / 0.1
MPL1265S-680M	68 ± 20%	3 Max.	4 Max.	113 Typ.	148 Max.	100K / 0.1
MPL1265S-101M	100 ± 20%	2.5 Max.	3.8 Max.	240 Typ.	310 Max.	100K / 0.1
MPL1265S-151M	150 ± 20%	2 Max.	3.5 Max.	282 Typ.	340 Max.	100K / 0.1

⊕ Electrical Characteristics :

OUR Part No. 9, 6 + \$ < 3 D U W 1 (µH)	Inductance (µH)	Irms (Amp)	Isat (Amp)	DCR (mΩ)	DCR (mΩ)	Test Frequency (Hz / V)
MPL1770S-R33M	0.33	75.5	55	0.61	0.67	100K / 0.1
IHLP6767GZERR33M11	± 20%	Max.	Max.	Typ.	Max.	
MPL1770S-R47M	0.47	64.5	62	0.78	0.87	100K / 0.1
IHLP6767GZERR47M11	± 20%	Max.	Max.	Typ.	Max.	
MPL1770S-R56M	0.56	61	66	0.83	0.91	100K / 0.1
IHLP6767GZERR56M11	± 20%	Max.	Max.	Typ.	Max.	
MPL1770S-R82M	0.82	56.5	45	0.98	1.08	100K / 0.1
IHLP6767GZERR82M11	± 20%	Max.	Max.	Typ.	Max.	
MPL1770S-1R0M	1	55.5	32	1.21	1.27	100K / 0.1
IHLP6767GZER1R0M11	± 20%	Max.	Max.	Typ.	Max.	
MPL1770S-1R5M	1.5	48	31	1.54	1.62	100K / 0.1
IHLP6767GZER1R5M11	± 20%	Max.	Max.	Typ.	Max.	
MPL1770S-2R2M	2.2	43.5	28	1.85	1.98	100K / 0.1
IHLP6767GZER2R2M11	± 20%	Max.	Max.	Typ.	Max.	
MPL1770S-3R3M	3.3	35	27	2.79	2.93	100K / 0.1
IHLP6767GZER3R3M11	± 20%	Max.	Max.	Typ.	Max.	
MPL1770S-4R7M	4.7	30	21	3.98	4.18	100K / 0.1
IHLP6767GZER4R7M11	± 20%	Max.	Max.	Typ.	Max.	
MPL1770S-5R6M	5.6	28	21	4.23	4.44	100K / 0.1
IHLP6767GZER5R6M11	± 20%	Max.	Max.	Typ.	Max.	
MPL1770S-6R8M	6.8	22.5	18.5	5.86	6.15	100K / 0.1
IHLP6767GZER6R8M11	± 20%	Max.	Max.	Typ.	Max.	
MPL1770S-8R2M	8.2	21	18	7.71	8.1	100K / 0.1
IHLP6767GZER8R2M11	± 20%	Max.	Max.	Typ.	Max.	
MPL1770S-100M	10	19	17	8.89	9.33	100K / 0.1
IHLP6767GZER100M11	± 20%	Max.	Max.	Typ.	Max.	
MPL1770S-150M	15	14	12	13.7	14.4	100K / 0.1
IHLP6767GZER150M11	± 20%	Max.	Max.	Typ.	Max.	
MPL1770S-220M	22	12	9.5	20	21	100K / 0.1
IHLP6767GZER220M11	± 20%	Max.	Max.	Typ.	Max.	
MPL1770S-330M	33	10.7	9	35.1	37	100K / 0.1
IHLP6767GZER330M11	± 20%	Max.	Max.	Typ.	Max.	
MPL1770S-470M	47	8.7	8.6	40.7	42.7	100K / 0.1
IHLP6767GZER470M11	± 20%	Max.	Max.	Typ.	Max.	
MPL1770S-560M	56	7.2	4.2	55	57.8	100K / 0.1
IHLP6767GZER560M11	± 20%	Max.	Max.	Typ.	Max.	
MPL1770S-680M	68	6.1	4.5	72.1	75.7	100K / 0.1
IHLP6767GZER680M11	± 20%	Max.	Max.	Typ.	Max.	

⊕ Electrical Characteristics :

OUR Part No. 9, 6 + \$ < 3 D U W 1 R	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL1770S-820M	82	5.5	4.5	87.3	91.7	100K / 0.1
IHLP6767GZER820M11	$\pm 20\%$	Max.	Max.	Typ.	Max.	
MPL1770S-101M	100	5	4	105	110	100K / 0.1
IHLP6767GZER101M11	$\pm 20\%$	Max.	Max.	Typ.	Max.	

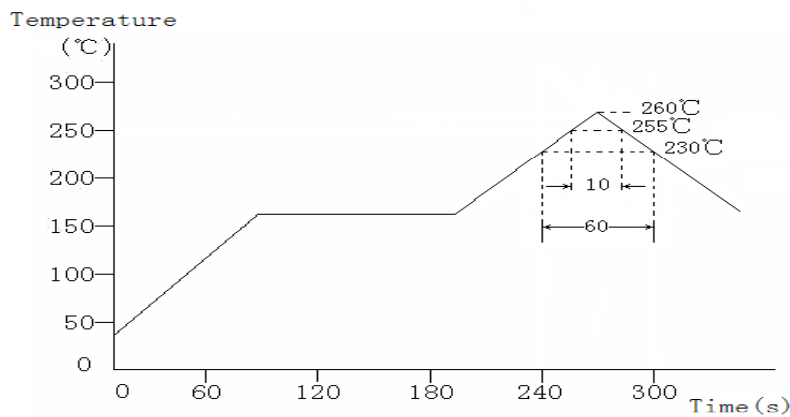
⊕ Electrical Characteristics :

OUR Part No. 9, 6 + \$ < 3 D U W 1 R	Inductance (μ H)	Irms (Amp)	Isat (Amp)	DCR (m Ω)	DCR (m Ω)	Test Frequency (Hz / V)
MPL1770A-R22M	0.22	80	129	0.63	0.7	100K / 0.1
IHLP6767GZER22M01	$\pm 20\%$	Max.	Max.	Typ.	Max.	
MPL1770A-R33M	0.33	65	126	0.71	0.79	100K / 0.1
IHLP6767GZER33M01	$\pm 20\%$	Max.	Max.	Typ.	Max.	
MPL1770A-R47M	0.47	62	123	0.84	0.92	100K / 0.1
IHLP6767GZER47M01	$\pm 20\%$	Max.	Max.	Typ.	Max.	
MPL1770A-R56M	0.56	56	88	0.91	1	100K / 0.1
IHLP6767GZER56M01	$\pm 20\%$	Max.	Max.	Typ.	Max.	
MPL1770A-R82M	0.82	50	73	1.17	1.29	100K / 0.1
IHLP6767GZER82M01	$\pm 20\%$	Max.	Max.	Typ.	Max.	
MPL1770A-1R0M	1	48	73	1.28	1.35	100K / 0.1
IHLP6767GZER1R0M01	$\pm 20\%$	Max.	Max.	Typ.	Max.	
MPL1770A-1R5M	1.5	42	65	1.78	1.88	100K / 0.1
IHLP6767GZER1R5M01	$\pm 20\%$	Max.	Max.	Typ.	Max.	
MPL1770A-1R8M	1.8	38	65	1.96	2.07	100K / 0.1
IHLP6767GZER1R8M01	$\pm 20\%$	Max.	Max.	Typ.	Max.	
MPL1770A-2R2M	2.2	35	62	2.4	2.53	100K / 0.1
IHLP6767GZER2R2M01	$\pm 20\%$	Max.	Max.	Typ.	Max.	
MPL1770A-3R3M	3.3	28	54	3.68	3.88	100K / 0.1
IHLP6767GZER3R3M01	$\pm 20\%$	Max.	Max.	Typ.	Max.	
MPL1770A-4R7M	4.7	25	41	4.84	5.11	100K / 0.1
IHLP6767GZER4R7M01	$\pm 20\%$	Max.	Max.	Typ.	Max.	
MPL1770A-5R6M	5.6	21	40	6.68	7.05	100K / 0.1
IHLP6767GZER5R6M01	$\pm 20\%$	Max.	Max.	Typ.	Max.	
MPL1770A-6R8M	6.8	19	32	8.4	8.83	100K / 0.1
IHLP6767GZER6R8M01	$\pm 20\%$	Max.	Max.	Typ.	Max.	
MPL1770A-8R2M	8.2	18	25	10.1	10.66	100K / 0.1
IHLP6767GZER8R2M01	$\pm 20\%$	Max.	Max.	Typ.	Max.	
MPL1770A-100M	10	16.5	25	11.6	12	100K / 0.1
IHLP6767GZER100M01	$\pm 20\%$	Max.	Max.	Typ.	Max.	
MPL1770A-150M	15	12.5	25	18.8	19.9	100K / 0.1
IHLP6767GZER150M01	$\pm 20\%$	Max.	Max.	Typ.	Max.	
MPL1770A-220M	22	11	23	25.1	26.5	100K / 0.1
IHLP6767GZER220M01	$\pm 20\%$	Max.	Max.	Typ.	Max.	

NOTE:

1. All test data is referenced to 25°C ambient.
2. Irms: DC current(A) that will cause an approximate ΔT of 40°C.
3. Isat: DC current(A) that will cause Lo to drop approximate 30%.
4. Operating temperature range is -35°C to 125°C.
5. The Part temperature (ambient + ΔT) should not exceed 125°C under worst case operating conditions.
6. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions affect the part temperature. Part temperature should be verified in the end application.

⊕ Reflow Soldering Heat Endurance

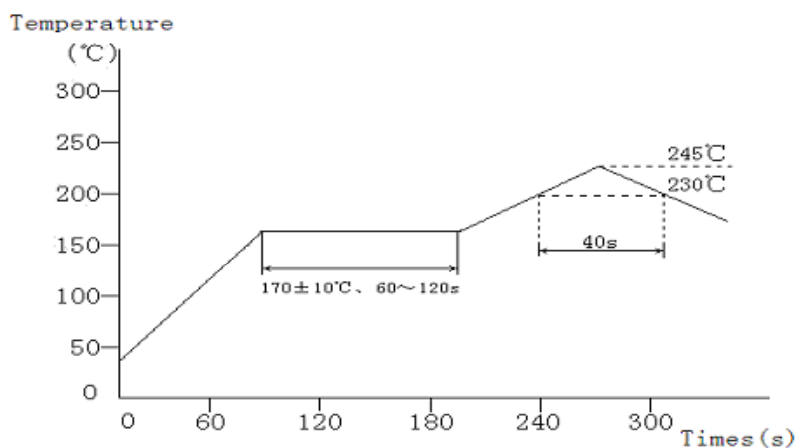


No mechanical and electrical defects are found after testing based on the above profile and keeping under the conditions of room temperature and humidity for 2 hours.

Twice reflow test is acceptable with the test interval remaining 1 hour under the normal conditions.

The reflow test profile may vary with the testing instruments.

⊕ Recommended Reflow Conditions



The recommended reflow profile is based on the testing instruments used. Solder ability will depend on the testing equipments, reflow conditions, testing method, etc. So it is necessary to make a confirmation of them when the reflow conditions are set up.

However halogen lamp shall be used, side heat will be beyond range of resistance heat, so we can't recommend it.