

SMD Power Inductor (MPI Series) 贴片功率电感 MPI 系列

FEATURES 特点

- low profile, low RDC, high current handling capacities
小尺寸、低直流电阻、高电流
- Magnetically shielded structure that ensures the high-density mounting configurations.
高密度封装的磁屏蔽结构
- Flat bottom surface ensures secure, reliable mounting.
平坦焊面便于安装
- Provided in embossed carrier tape packaging for use with automatic mounting machines. 编带包装便于自动贴装



APPLICATIONS 应用

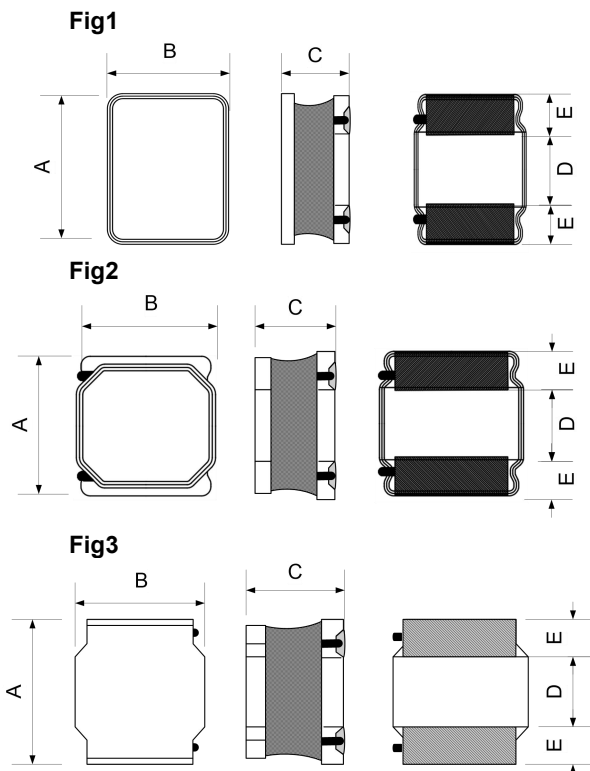
- Ideally used in Portable telephones, PDA, DSC, DC-DC Converters, etc.
用于手机、掌上电脑、数字信号控制器, DC-DC 转换等。

Product Identification 产品标识

MPIA **201610** **H** - **1R0** **M** **LF**
① ② ③ ④ ⑤ ⑥

- ① Series Name 系列名称
- ② Product Dimensions 产品尺寸: (201610=2.0*1.6*1.0 mm)
- ③ Special Process Code
- ④ Inductance Value 电感量: (R68=0.68uH 1R0=1.0uH 100=10uH)
- ⑤ Inductance Tolerance 电感量公差: (M:20%; N:30%)
- ⑥ Lead Free Products 无铅产品

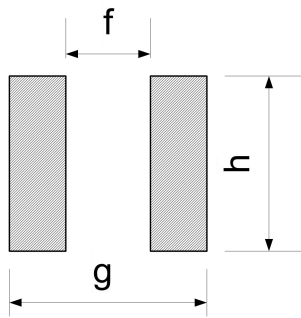
Shapes And Dimensions 外形及尺寸示意图



Series	Dimensions(mm)					Shape
	A	B	C Max.	D Ref.	E Ref.	
201610	2.0±0.2	1.6±0.2	1.0	0.60	0.60	Fig1/Fig2
252010	2.5±0.2	2.0±0.2	1.0	0.80	0.80	Fig1
252012	2.5±0.2	2.0±0.2	1.2	0.80	0.80	Fig1
3010	3.0±0.2	3.0±0.2	1.0	1.50	0.75	Fig2
3012	3.0±0.2	3.0±0.2	1.5	1.50	0.75	Fig2
3015	3.0±0.2	3.0±0.2	1.7	1.50	0.75	Fig2
4012	4.0±0.2	4.0±0.2	1.2	2.10	0.95	Fig2
4018	4.0±0.2	4.0±0.2	1.8	2.10	0.95	Fig3
4030	4.0±0.2	4.0±0.2	3.0	2.10	0.95	Fig3
5020	5.0±0.2	5.0±0.2	2.0	2.40	1.30	Fig3
5040	5.0±0.2	5.0±0.2	4.0	2.40	1.30	Fig2
6045	6.0±0.3	6.0±0.3	4.5	2.90	0.95	Fig3
8040	8.0±0.3	8.0±0.3	4.0	4.0	1.60	Fig2.3

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Recommended Footprint 焊位示意图



Series	Dimensions(mm)		
	f Ref.	g Ref.	h Ref.
2016	0.8	2.2	1.6
2520	0.8	2.5	2.0
30	1.5	3.1	2.7
40	1.9	4.1	3.7
50	2.3	5.1	4.2
60	2.8	6.2	5.7
80	3.8	7.5	7.4

Electrical Characteristics 电气性能

201610 Series

Part Number	L (μ H)	Tolerance ($\pm\%$)	DCR Max.($m\Omega$)	Idc Typ. (A)	
				L \downarrow 30%	T \uparrow 40 $^{\circ}$ C
MPIT201610-R24M-LF	0.24	20	0.034	3.80	3.80
MPIT201610-R33M-LF	0.33	20	0.052	3.70	3.50
MPIT201610-R47M-LF	0.47	20	0.059	2.90	2.50
MPIT201610-R68M-LF	0.68	20	0.078	2.20	2.40
MPIT201610-1R0M-LF	1.0	20	0.104	1.90	2.00
MPIT201610-2R2M-LF	2.2	20	0.120	1.00	1.40
MPIT201610-4R7M-LF	4.7	20	0.396	0.90	1.00
MPIT201610-100M-LF	10.0	20	0.956	0.70	0.70
MPIH201610-R24M-LF	0.24	20	0.032	4.20	4.30
MPIH201610-R33M-LF	0.33	20	0.041	3.80	3.80
MPIH201610-R47M-LF	0.47	20	0.041	3.00	3.00
MPIH201610-R68M-LF	0.68	20	0.060	2.60	2.80
MPIH201610-1R0M-LF	1.0	20	0.072	2.00	2.25
MPIH201610-2R2M-LF	2.2	20	0.215	1.35	1.40
MPIH201610-4R7M-LF	4.7	20	0.420	1.00	1.00
MPIH201610-100M-LF	10.0	20	0.820	0.65	0.70
MPIE201610-R24M-LF	0.24	20	0.032	4.85	4.30
MPIE201610-R47M-LF	0.47	20	0.042	3.60	3.00
MPIE201610-R68M-LF	0.68	20	0.058	3.00	3.00
MPIE201610-1R0M-LF	1.0	20	0.070	2.20	2.60
MPIE201610-1R5M-LF	1.5	20	0.120	1.70	2.00
MPIE201610-2R2M-LF	2.2	20	0.150	1.60	1.60

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Part Number	L (uH)	Tolerance (±%)	DCR Max.(mΩ)	Idc Typ. (A)	
				L ↓ 30%	T ↑ 40℃
MPIA201610-R24M-LF	0.24	20	0.032	5.50	4.30
MPIA201610-R33M-LF	0.33	20	0.032	4.60	3.80
MPIA201610-R47M-LF	0.47	20	0.042	4.40	3.50
MPIA201610-R68M-LF	0.68	20	0.057	3.40	3.00
MPIA201610-1R0M-LF	1.0	20	0.090	3.15	2.40
MPIA201610-1R5M-LF	1.5	20	0.130	2.20	2.00
MPIA201610-2R2M-LF	2.2	20	0.165	2.10	1.45
MPIA201610HR24M-LF	0.24	20	0.026	7.00	4.50
MPIA201610HR33M-LF	0.33	20	0.029	6.00	4.00
MPIA201610HR47M-LF	0.47	20	0.036	4.50	3.80
MPIA201610HR68M-LF	0.68	20	0.050	4.00	3.10
MPIA201610H1R0M-LF	1.0	20	0.072	3.40	2.85
MPIA201610H1R5M-LF	1.5	20	0.120	2.20	2.10
MPIA201610H2R2M-LF	2.2	20	0.155	2.20	1.70
MPIA201610ER24M-LF	0.24	20	0.022	7.00	4.80
MPIA201610ER33M-LF	0.33	20	0.025	7.00	4.50
MPIA201610ER47M-LF	0.47	20	0.032	4.60	4.00
MPIA201610ER68M-LF	0.68	20	0.042	4.30	3.70
MPIA201610E1R0M-LF	1.0	20	0.054	3.60	3.00
MPIA201610E1R5M-LF	1.5	20	0.110	2.45	2.15
MPIA201610E2R2M-LF	2.2	20	0.110	2.35	2.15

252010 Series

Part Number	L (uH)	Tolerance (±%)	DCR Max.(mΩ)	Idc Typ. (A)	
				L ↓ 30%	T ↑ 40℃
MPIT252010-R47M-LF	0.47	20	0.056	3.40	2.70
MPIT252010-R68M-LF	0.68	20	0.056	2.90	2.70
MPIT252010-1R0M-LF	1.0	20	0.078	2.55	2.30
MPIT252010-2R2M-LF	2.2	20	0.186	1.70	1.65
MPIT252010-3R3M-LF	3.3	20	0.300	1.30	1.45
MPIT252010-4R7M-LF	4.7	20	0.456	1.20	0.90
MPIT252010-6R8M-LF	6.8	20	0.540	1.00	0.85
MPIT252010-100M-LF	10.0	20	0.660	0.90	0.70
MPIT252010-220M-LF	22.0	20	1.600	0.60	0.55
MPIT252010-470M-LF	47.0	20	2.400	0.35	0.35

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Part Number	L (uH)	Tolerance (±%)	DCR Max.(mΩ)	Idc Typ. (A)	
				L ↓ 30%	T ↑ 40℃
MPIH252010-R47M-LF	0.47	20	0.042	3.60	3.50
MPIH252010-R68M-LF	0.68	20	0.058	3.20	3.20
MPIH252010-1R0M-LF	1.0	20	0.072	2.70	2.70
MPIH252010-2R2M-LF	2.2	20	0.142	1.70	1.75
MPIH252010-3R3M-LF	3.3	20	0.270	1.50	1.25
MPIE252010-R24M-LF	0.24	20	0.030	5.50	4.30
MPIE252010-R33M-LF	0.33	20	0.038	4.05	3.90
MPIE252010-R47M-LF	0.47	20	0.038	3.90	3.90
MPIE252010-R68M-LF	0.68	20	0.053	3.50	3.20
MPIE252010-1R0M-LF	1.0	20	0.072	2.60	2.60
MPIE252010-1R5M-LF	1.5	20	0.103	2.20	2.10
MPIE252010-2R2M-LF	2.2	20	0.155	1.90	1.90
MPIE252010-3R3M-LF	3.3	20	0.210	1.60	1.50
MPIE252010-4R7M-LF	4.7	20	0.318	1.30	1.20
MPIE252010-6R8M-LF	6.8	20	0.470	1.10	1.10
MPIE252010-100M-LF	10.0	20	0.600	0.80	0.80
MPIA252010-R24M-LF	0.24	20	0.030	6.55	4.20
MPIA252010-R33M-LF	0.33	20	0.026	6.50	5.00
MPIA252010-R47M-LF	0.47	20	0.038	5.50	4.00
MPIA252010-R68M-LF	0.68	20	0.050	4.15	3.90
MPIA252010-1R0M-LF	1.0	20	0.065	3.55	3.00
MPIA252010-1R5M-LF	1.5	20	0.100	3.00	2.35
MPIA252010-2R2M-LF	2.2	20	0.130	2.30	2.00
MPIA252010-4R7M-LF	4.7	20	0.310	1.60	1.35
MPIA252010ER24M-LF	0.24	20	0.018	8.90	6.50
MPIA252010ER33M-LF	0.33	20	0.024	7.50	5.50
MPIA252010ER47M-LF	0.47	20	0.030	6.50	4.70
MPIA252010ER68M-LF	0.68	20	0.040	5.60	4.20
MPIA252010E1R0M-LF	1.0	20	0.053	4.60	4.00
MPIA252010E1R5M-LF	1.5	20	0.075	3.80	3.30
MPIA252010E2R2M-LF	2.2	20	0.097	3.00	2.70
MPIA252010E4R7M-LF	4.7	20	0.250	1.70	1.50
MPIA252010HR24M-LF	0.24	20	0.027	7.10	4.60
MPIA252010HR33M-LF	0.33	20	0.027	5.30	4.40
MPIA252010HR47M-LF	0.47	20	0.035	6.00	4.50
MPIA252010HR68M-LF	0.68	20	0.045	4.70	4.00
MPIA252010H1R0M-LF	1.0	20	0.060	3.70	3.50
MPIA252010H1R5M-LF	1.5	20	0.085	3.00	2.90
MPIA252010H2R2M-LF	2.2	20	0.110	2.50	2.40
MPIA252010H4R7M-LF	4.7	20	0.276	1.70	1.35

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Electrical Characteristics 电气性能

MPIT252012 Series

Part Number	L (uH)	Tolerance (±%)	DCR Max.(Ω)	Idc Typ. (A)	
				L ↓ 30%	T ↑ 40°C
MPIT252012-R47M-LF	0.47	20	0.035	3.80	3.00
MPIT252012-R68M-LF	0.68	20	0.048	3.00	2.50
MPIT252012-1R0M-LF	1.0	20	0.065	2.60	2.43
MPIT252012-1R5M-LF	1.5	20	0.088	1.80	1.95
MPIT252012-2R2M-LF	2.2	20	0.144	1.55	1.70
MPIT252012-3R3M-LF	3.3	20	0.174	1.30	1.35
MPIT252012-4R7M-LF	4.7	20	0.252	1.25	1.12
MPIT252012-6R8M-LF	6.8	20	0.360	0.90	0.85
MPIT252012-100M-LF	10.0	20	0.600	0.75	0.70
MPIT252012-220M-LF	22.0	20	1.150	0.50	0.50
MPIH252012-R33M-LF	0.33	20	0.030	5.05	5.25
MPIH252012-R47M-LF	0.47	20	0.032	4.50	3.75
MPIH252012-R68M-LF	0.68	20	0.042	3.90	3.50
MPIH252012-1R0M-LF	1.0	20	0.056	3.00	3.50
MPIH252012-1R5M-LF	1.5	20	0.072	2.30	2.25
MPIH252012-2R2M-LF	2.2	20	0.100	1.90	2.20
MPIH252012-3R3M-LF	3.3	20	0.144	1.70	1.60
MPIH252012-4R7M-LF	4.7	20	0.216	1.40	1.35
MPIH252012-6R8M-LF	6.8	20	0.300	1.20	1.05
MPIH252012-100M-LF	10.0	20	0.462	1.00	0.90
MPIE252012-R24M-LF	0.24	20	0.025	5.00	4.30
MPIE252012-R47M-LF	0.47	20	0.038	5.00	3.75
MPIE252012-R68M-LF	0.68	20	0.045	4.10	3.60
MPIE252012-1R0M-LF	1.0	20	0.054	3.50	3.50
MPIE252012-1R5M-LF	1.5	20	0.072	2.50	2.25
MPIE252012-2R2M-LF	2.2	20	0.105	2.30	2.40
MPIA252012-R24M-LF	0.24	20	0.025	6.00	4.70
MPIA252012-R47M-LF	0.47	20	0.035	6.00	3.80
MPIA252012-R68M-LF	0.68	20	0.045	4.80	3.80
MPIA252012-1R0M-LF	1.0	20	0.057	4.00	3.60
MPIA252012-1R5M-LF	1.5	20	0.095	4.00	3.00
MPIA252012-2R2M-LF	2.2	20	0.100	3.00	2.40

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Electrical Characteristics 电气性能

MPIT3010 Series

Part Number	L (uH)	Tolerance (±%)	DCR Max.(Ω)	Idc Typ. (A)	
				L ↓ 30%	T ↑ 40°C
MPIT3010-R56M-LF	0.56	20	0.048	2.80	2.15
MPIT3010-R68M-LF	0.68	20	0.048	2.50	2.15
MPIT3010-1R0M-LF	1.0	20	0.066	2.15	2.00
MPIT3010-1R5M-LF	1.5	20	0.078	1.65	1.70
MPIT3010-2R2M-LF	2.2	20	0.096	1.35	1.55
MPIT3010-3R3M-LF	3.3	20	0.145	1.20	1.25
MPIT3010-4R7M-LF	4.7	20	0.222	1.10	1.05
MPIT3010-6R8M-LF	6.8	20	0.330	0.85	0.70
MPIT3010-8R2M-LF	8.2	20	0.348	0.80	0.80
MPIT3010-100M-LF	10.0	20	0.480	0.70	0.70
MPIT3010-150M-LF	15.0	20	0.624	0.60	0.60
MPIT3010-220M-LF	22.0	20	1.000	0.50	0.50
MPIT3010-330M-LF	33.0	20	1.200	0.40	0.40

MPIT3012 Series

Part Number	L (uH)	Tolerance (±%)	DCR Max.(Ω)	Idc Typ. (A)	
				L ↓ 30%	T ↑ 40°C
MPIT3012-R82M-LF	0.82	20	0.039	2.60	3.30
MPIT3012-1R0M-LF	1.0	20	0.048	2.50	3.30
MPIT3012-1R2M-LF	1.2	20	0.048	2.15	2.60
MPIT3012-1R5M-LF	1.5	20	0.060	2.10	2.30
MPIT3012-2R2M-LF	2.2	20	0.075	1.65	2.10
MPIT3012-3R3M-LF	3.3	20	0.108	1.45	1.70
MPIT3012-4R7M-LF	4.7	20	0.144	1.15	1.50
MPIT3012-6R8M-LF	6.8	20	0.210	1.05	1.15
MPIT3012-100M-LF	10.0	20	0.312	0.75	1.00
MPIT3012-150M-LF	15.0	20	0.420	0.60	0.85
MPIT3012-180M-LF	18.0	20	0.576	0.60	0.78
MPIT3012-220M-LF	22.0	20	0.588	0.50	0.75
MPIT3012-330M-LF	33.0	20	0.960	0.47	0.55
MPIT3012-470M-LF	47.0	20	1.560	0.45	0.45
MPIA3012-1R0M-LF	1.0	20	0.055	6.00	3.10
MPIA3012-2R2M-LF	2.2	20	0.108	3.35	2.35
MPIA3012-4R7M-LF	4.7	20	0.235	2.50	1.50
MPIB3012-100M-LF	10.0	20	0.415	1.10	0.90
MPIB3012-220M-LF	22.0	20	0.800	0.75	0.70

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Electrical Characteristics 电气性能

MPIT3015 Series

Part Number	L (μ H)	Tolerance ($\pm\%$)	DCR Max.(Ω)	Idc Typ. (A)	
				L \downarrow 30%	T \uparrow 40 $^{\circ}$ C
MPIT3015-1R0M-LF	1.0	20	0.040	2.80	2.85
MPIT3015-1R2M-LF	1.2	20	0.048	2.80	2.65
MPIT3015-1R5M-LF	1.5	20	0.055	2.75	2.60
MPIT3015-2R2M-LF	2.2	20	0.072	2.10	2.25
MPIT3015-3R3M-LF	3.3	20	0.102	1.75	1.85
MPIT3015-3R9M-LF	3.9	20	0.132	1.50	1.70
MPIT3015-4R7M-LF	4.7	20	0.145	1.45	1.50
MPIT3015-5R6M-LF	5.6	20	0.156	1.20	1.50
MPIT3015-6R8M-LF	6.8	20	0.200	1.15	1.30
MPIT3015-8R2M-LF	8.2	20	0.228	1.05	1.20
MPIT3015-100M-LF	10.0	20	0.300	1.10	1.05
MPIT3015-120M-LF	12.0	20	0.300	0.85	1.05
MPIT3015-150M-LF	15.0	20	0.420	0.80	0.95
MPIT3015-220M-LF	22.0	20	0.545	0.65	0.85
MPIT3015-330M-LF	33.0	20	0.852	0.50	0.65
MPIT3015-470M-LF	47.0	20	1.200	0.45	0.55
MPIT3015-680M-LF	68.0	20	2.400	0.34	0.40

MPIT4012 Series

Part Number	L (μ H)	Tolerance ($\pm\%$)	DCR Max.(Ω)	Idc Typ. (A)	
				L \downarrow 30%	T \uparrow 40 $^{\circ}$ C
MPIT4012-R82M-LF	0.82	20	0.065	3.65	2.20
MPIT4012-1R0M-LF	1.0	20	0.065	3.20	2.20
MPIT4012-1R5M-LF	1.5	20	0.078	2.50	2.00
MPIT4012-2R2M-LF	2.2	20	0.104	2.10	2.10
MPIT4012-3R3M-LF	3.3	20	0.143	1.95	1.70
MPIT4012-4R7M-LF	4.7	20	0.182	1.55	1.50
MPIT4012-5R6M-LF	5.6	20	0.215	1.60	1.35
MPIT4012-6R8M-LF	6.8	20	0.257	1.40	1.30
MPIT4012-100M-LF	10.0	20	0.312	1.05	1.05
MPIT4012-150M-LF	15.0	20	0.494	0.90	0.90
MPIT4012-220M-LF	22.0	20	0.741	0.70	0.75
MPIT4012-470M-LF	47.0	20	1.760	0.45	0.45
MPIT4012-101M-LF	100.0	20	3.600	0.35	0.30

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Electrical Characteristics 电气性能

MPIT4018 Series

Part Number	L (μ H)	Tolerance (\pm %)	DCR Max.(m Ω)	Idc Typ. (A)	
				L \downarrow 30%	T \uparrow 40 $^{\circ}$ C
MPIT4018-1R0M-LF	1.0	20	0.030	4.85	3.80
MPIT4018-1R2M-LF	1.2	20	0.030	4.80	3.80
MPIT4018-1R5M-LF	1.5	20	0.036	4.25	3.20
MPIT4018-2R2M-LF	2.2	20	0.048	3.40	2.90
MPIT4018-3R3M-LF	3.3	20	0.060	3.00	2.50
MPIT4018-3R9M-LF	3.9	20	0.078	2.80	2.20
MPIT4018-4R7M-LF	4.7	20	0.078	2.30	2.20
MPIT4018-6R8M-LF	6.8	20	0.108	1.85	1.90
MPIT4018-100M-LF	10.0	20	0.168	1.55	1.30
MPIT4018-150M-LF	15.0	20	0.228	1.25	1.20
MPIT4018-220M-LF	22.0	20	0.336	1.10	1.10
MPIT4018-330M-LF	33.0	20	0.480	0.90	0.85
MPIT4018-470M-LF	47.0	20	0.720	0.80	0.70
MPIT4018-101M-LF	100.0	20	1.740	0.55	0.35

MPIT4030 Series

Part Number	L (μ H)	Tolerance (\pm %)	DCR Max.(m Ω)	Idc Typ. (A)	
				L \downarrow 30%	T \uparrow 40 $^{\circ}$ C
MPIT4030-R91M-LF	0.91	20	0.029	7.30	3.50
MPIT4030-1R0M-LF	1.0	20	0.034	6.50	3.30
MPIT4030-1R2M-LF	1.2	20	0.038	6.00	3.25
MPIT4030-1R5M-LF	1.5	20	0.039	5.50	3.20
MPIT4030-2R2M-LF	2.2	20	0.046	4.70	2.85
MPIT4030-3R3M-LF	3.3	20	0.052	3.70	2.65
MPIT4030-4R7M-LF	4.7	20	0.078	3.20	2.20
MPIT4030-6R8M-LF	6.8	20	0.109	2.80	1.80
MPIT4030-100M-LF	10.0	20	0.125	2.20	1.65
MPIT4030-120M-LF	12.0	20	0.170	2.10	1.45
MPIT4030-150M-LF	15.0	20	0.245	1.90	1.20
MPIT4030-220M-LF	22.0	20	0.295	1.50	1.10
MPIT4030-330M-LF	33.0	20	0.415	1.30	0.95
MPIT4030-390M-LF	39.0	20	0.450	1.10	0.90
MPIT4030-470M-LF	47.0	20	0.580	1.05	0.80
MPIT4030-560M-LF	56.0	20	0.720	0.95	0.70
MPIT4030-620M-LF	62.0	20	1.080	0.85	0.60
MPIT4030-680M-LF	68.0	20	1.130	0.85	0.55
MPIT4030-101M-LF	100.0	20	1.450	0.75	0.50
MPIT4030-121M-LF	120.0	20	1.630	0.60	0.47
MPIT4030-151M-LF	150.0	20	1.72	0.60	0.46
MPIT4030-331M-LF	330.0	20	4.08	0.38	0.30

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SMD Power Inductor (MPI Series) 贴片功率电感 MPI 系列

Electrical Characteristics 电气性能

MPIT5020 Series

Part Number	L (uH)	Tolerance (±%)	DCR Max.(mΩ)	Idc Typ. (A)	
				L ↓ 30%	T ↑ 40°C
MPIT5020-R47N-LF	0.47	30	0.017	6.15	4.60
MPIT5020-R75N-LF	0.75	30	0.022	5.50	4.00
MPIT5020-1R0N-LF	1.0	30	0.026	4.10	3.80
MPIT5020-1R2N-LF	1.2	30	0.029	4.50	3.55
MPIT5020-1R5N-LF	1.5	30	0.034	4.10	3.20
MPIT5020-2R2N-LF	2.2	30	0.042	3.20	2.90
MPIT5020-2R7N-LF	2.7	30	0.049	2.90	2.70
MPIT5020-3R0N-LF	3.0	30	0.049	2.55	2.70
MPIT5020-3R3N-LF	3.3	30	0.056	2.55	2.50
MPIT5020-3R6N-LF	3.6	30	0.056	2.80	2.50
MPIT5020-3R9N-LF	3.9	30	0.056	2.30	2.50
MPIT5020-4R3M-LF	4.3	20	0.074	2.50	2.20
MPIT5020-4R7M-LF	4.7	20	0.074	2.50	2.20
MPIT5020-5R1M-LF	5.1	20	0.083	2.25	2.05
MPIT5020-5R6M-LF	5.6	20	0.083	2.30	2.05
MPIT5020-6R8M-LF	6.8	20	0.108	2.05	1.80
MPIT5020-7R5M-LF	7.5	20	0.117	1.85	1.75
MPIT5020-8R2M-LF	8.2	20	0.127	1.85	1.65
MPIT5020-9R1M-LF	9.1	20	0.143	1.70	1.55
MPIT5020-100M-LF	10.0	20	0.143	1.70	1.55
MPIT5020-120M-LF	12.0	20	0.182	1.50	1.40
MPIT5020-150M-LF	15.0	20	0.215	1.35	1.25
MPIT5020-180M-LF	18.0	20	0.260	1.25	1.15
MPIT5020-220M-LF	22.0	20	0.294	1.15	1.10

SMD Power Inductor (MPI Series) 贴片功率电感 MPI 系列

Electrical Characteristics 电气性能

MPIT6045 Series

Part Number	L (uH)	Tolerance (±%)	DCR Max.(mΩ)	Idc Typ. (A)	
				L ↓ 30%	T ↑ 40°C
MPIT6045-1R0M-LF	1.0	20	0.010	15.00	6.35
MPIT6045-1R2M-LF	1.2	20	0.013	12.50	6.05
MPIT6045-1R5M-LF	1.5	20	0.013	11.50	6.05
MPIT6045-2R2M-LF	2.2	20	0.018	10.50	5.00
MPIT6045-3R3M-LF	3.3	20	0.024	9.00	4.40
MPIT6045-4R7M-LF	4.7	20	0.026	7.50	4.20
MPIT6045-6R8M-LF	6.8	20	0.040	6.20	3.30
MPIT6045-100M-LF	10.0	20	0.056	4.80	3.00
MPIT6045-120M-LF	12.0	20	0.065	4.50	2.75
MPIT6045-150M-LF	15.0	20	0.085	3.80	2.30
MPIT6045-220M-LF	22.0	20	0.116	3.50	2.00
MPIT6045-330M-LF	33.0	20	0.175	2.60	1.60
MPIT6045-470M-LF	47.0	20	0.260	2.30	1.30
MPIT6045-560M-LF	56.0	20	0.286	1.90	1.25
MPIT6045-680M-LF	68.0	20	0.325	1.80	1.20
MPIT6045-101M-LF	100.0	20	0.468	1.40	1.10

MPIT8040 Series

Part Number	L (uH)	Tolerance (±%)	DCR Max.(mΩ)	Idc Typ. (A)	
				L ↓ 30%	T ↑ 40°C
MPIT8040-0R9N-LF	0.9	30	8	11.0	7.8
MPIT8040-1R4N-LF	1.4	30	10	9.0	7.0
MPIT8040-2R0N-LF	2.0	30	12	7.4	6.3
MPIT8040-3R6N-LF	3.6	30	20	5.3	4.9
MPIT8040-4R7N-LF	4.7	30	24	4.7	4.1
MPIT8040-6R8N-LF	6.8	30	33	4.0	3.7
MPIT8040-100M-LF	10.0	20	45	3.4	3.1
MPIT8040-150M-LF	15.0	20	65	2.7	2.4
MPIT8040-220M-LF	22.0	20	86	2.2	2.2
MPIT8040-330M-LF	33.0	20	130	1.9	1.7
MPIT8040-470M-LF	47.0	20	195	1.5	1.4
MPIT8040-680M-LF	68.0	20	299	1.2	1.1
MPIT8040-101M-LF	100.0	20	377	1.0	1.0

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

Note 2 : Test Condition: 100KHz, 1.0Vrms

Note 3 : Irms : DC current (A) that will cause an approximate ΔT of 40°C

Note 4 : Isat : DC current (A) that will cause L0 to drop approximately 30%

Note 5 : Operating Temperature Range -55°C to + 125°C

Note 6 : The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design , component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

Note 7 : The rated current as listed is either the saturation current or the heating current depending on which value is lower.

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