

CHIP POWER INDUCTORS 叠层片式功率电感

MPH 系列

FEATURES

- High DC bias current and lower DC resistance due to Trench Technology.
- Monolithic inorganic material construction.
- Excellent solder ability and heat resistance.
- Closed magnetic circuit avoids crosstalk.
- Low profile and thin thickness.

APPLICATIONS

- Suitable for DC-DC converter, such as television, DVD, Note book, video camera, car stereos, OA equipments, mobile phone, MP3, MP4, PDA, television tuners, DC, Portable media player, etc.

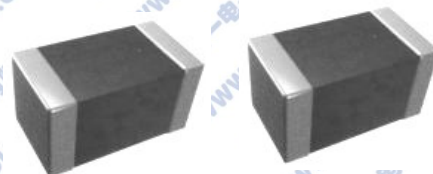
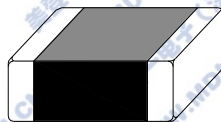
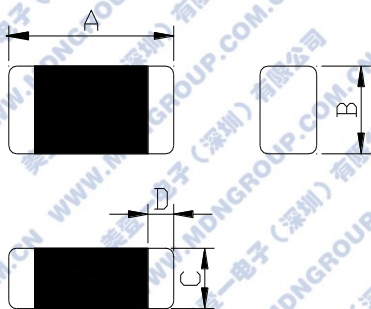
特 征

- 采用沟槽工艺, 提高了偏置电流, 降低了直流电阻;
- 独石无机材料结构;
- 优秀的焊接性能及耐热性;
- 封闭磁路避免干扰;
- 小尺寸, 超薄型。

用 途

- 适用于电视机、液晶显示器、笔记本电脑、摄影机、汽车音响、电脑主机板、办公自动化设备、移动电话、MP3、MP4、PDA、电视调谐器、数码相机, 便携式多媒体播放器等数字信号设备的 DC-DC 转换器。

DIMENSIONS AND LAND PATTERNS(mm)



TYPE	A	B	C	D
MPH160805-	1.60 ± 0.15	0.80 ± 0.15	0.50 ± 0.05	0.30 ± 0.20
MPH160809-	1.60 ± 0.15	0.80 ± 0.15	0.80 ± 0.15	0.30 ± 0.20
MPH201205-	$2.00 + 0.30 / - 0.1$	1.25 ± 0.20	0.50 ± 0.05	0.50 ± 0.30
MPH201206-	$2.00 + 0.30 / - 0.1$	1.25 ± 0.20	0.50 ± 0.10	0.50 ± 0.30
MPH201210-	$2.00 + 0.30 / - 0.1$	1.25 ± 0.20	0.90 ± 0.10	0.50 ± 0.30
MPH201214-	$2.00 + 0.30 / - 0.1$	1.25 ± 0.20	1.25 ± 0.20	0.50 ± 0.30
MPH201610-	$2.00 + 0.30 / - 0.1$	1.60 ± 0.20	0.90 ± 0.10	0.50 ± 0.30
MPH201612-	$2.00 + 0.30 / - 0.1$	1.60 ± 0.20	1.10 ± 0.10	0.50 ± 0.30
MPH252010-	2.50 ± 0.20	$2.00 + 0.30 / - 0.1$	0.90 ± 0.10	0.50 ± 0.30
MPH252012-	2.50 ± 0.20	$2.00 + 0.30 / - 0.1$	1.10 ± 0.10	0.50 ± 0.30

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MPH1608 TYPE

PART NO	L (μ H) @100MHz	SRF (MHz) Min	DCR ($m\Omega$) Max	Isat (mA) Typ	Irms (mA) Max
MPH160805S-R22N	$0.22 \pm 30\%$	180	150	1450	1200
MPH160805S-R33N	$0.33 \pm 30\%$	140	200	1350	1100
MPH160805S-R47N	$0.47 \pm 30\%$	120	225	1050	1150
MPH160805S-R68N	$0.68 \pm 30\%$	100	275	800	900
MPH160805S-1R0N	$1.0 \pm 30\%$	90	400	700	800
MPH160809S-R22N	$0.22 \pm 30\%$	200	125	1600	1250
MPH160809S-R33N	$0.33 \pm 30\%$	190	162	1500	1200
MPH160809S-R47N	$0.47 \pm 30\%$	180	187	1200	1100
MPH160809S-R68N	$0.68 \pm 30\%$	160	225	1100	1150
MPH160809S-1R0N	$1.0 \pm 30\%$	125	250	800	1000
MPH160809S-1R5N	$1.5 \pm 30\%$	100	285	500	900
MPH160809S-2R2N	$2.2 \pm 30\%$	80	375	300	850
MPH160809S-R47NB1	$0.47 \pm 30\%$	190	112	1700	1400

MPH2012 TYPE

PART NO	L (μ H) @100MHz	SRF (MHz) Min	DCR ($m\Omega$) Max	Isat (mA) Typ	Irms (mA) Max
MPH201205S-R54N	$0.54 \pm 30\%$	120	150	1100	1200
MPH201205S-1R0N	$1.00 \pm 30\%$	40	225	900	900
MPH201206S-R47N	$0.47 \pm 30\%$	80	150	1300	1100
MPH201206S-1R0N	$1.00 \pm 30\%$	40	238	700	800
MPH201206S-1R5N	$1.50 \pm 30\%$	35	325	500	700
MPH201206S-2R2N	$2.20 \pm 30\%$	30	400	350	600
MPH201210S-R47N	$0.47 \pm 30\%$	100	100	1200	1500
MPH201210S-1R0N	$1.00 \pm 30\%$	60	137	1150	1300
MPH201210S-1R5N	$1.50 \pm 30\%$	50	200	800	1100
MPH201210S-2R2N	$2.2 \pm 30\%$	40	250	500	900
MPH201210H-2R2N	$2.2 \pm 30\%$	40	250	600	900
MPH201210S-3R3N	$3.3 \pm 30\%$	30	250	350	900
MPH201210S-4R7N	$4.7 \pm 30\%$	30	312	280	800
MPH201214S-4R7N	$4.7 \pm 30\%$	20	500	630	750
MPH201214S-6R8N	$6.8 \pm 30\%$	45	375	250	1000
MPH201214S-100M	$10.0 \pm 20\%$	35	375	130	1000

Remark : Inductance decrease current(Isat): Value of inductance decrease within 30%.

Temperature rise current(Irms): A rise in temperature of core surface is within 40℃.

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MPH2016 TYPE

PART NO	L (μ H) @100MHz	SRF (MHz) Min	DCR ($m\Omega$) Max	Isat (mA) Typ	Irms (mA) Max
MPH201610S-R47N	$0.47 \pm 30\%$	100	100	1600	1500
MPH201610S-1R0N	$1.00 \pm 30\%$	70	112	1200	1400
MPH201610S-1R5N	$1.50 \pm 30\%$	60	137	700	1200
MPH201610S-2R2N	$2.20 \pm 30\%$	50	137	500	1200
MPH201610S-3R3N	$3.30 \pm 30\%$	40	150	330	1200
MPH201610S-4R7N	$4.70 \pm 30\%$	30	175	220	1100
MPH201612S-6R8N	$6.80 \pm 30\%$	40	212	220	1200
MPH201612S-100M	$10.0 \pm 20\%$	35	312	200	1100

MPH2520 TYPE

PART NO	L (μ H) @100MHz	SRF (MHz) Min	DCR ($m\Omega$) Max	Isat (A) Typ	Irms (A) Max
MPH252010S-R47N	$0.47 \pm 30\%$	105	50	1500	1800
MPH252010S-1R0N	$1.0 \pm 30\%$	70	75	1400	1600
MPH252010S-1R5N	$1.5 \pm 30\%$	65	87	1200	1500
MPH252010S-2R2N	$2.2 \pm 30\%$	55	100	850	1300
MPH252010S-3R3N	$3.3 \pm 30\%$	30	125	450	1200
MPH252010S-4R7N	$4.7 \pm 30\%$	25	137	320	1100
MPH252010C-2R2N	$2.2 \pm 30\%$	60	250	1500	1200
MPH252010C-3R3N	$3.3 \pm 30\%$	55	312	1200	1100
MPH252010C-4R7N	$4.7 \pm 30\%$	35	475	750	900
MPH252010C-6R8N	$6.8 \pm 30\%$	30	562	350	750
MPH252010C-100M	$10.0 \pm 20\%$	25	625	250	700
MPH252012S-4R7N	$4.7 \pm 30\%$	30	225	750	1000
MPH252012C-1R0N	$1.0 \pm 30\%$	85	106	2100	2100
MPH252012C-2R2N	$2.2 \pm 30\%$	50	312	1600	1100
MPH252012C-3R3N	$3.3 \pm 30\%$	50	312	1250	1100
MPH252012C-4R7N	$4.7 \pm 30\%$	35	500	800	900
MPH252012C-6R8N	$6.8 \pm 30\%$	30	625	750	800
MPH252012C-100M	$10.0 \pm 20\%$	25	625	500	800

Remark : Inductance decrease current(Isat): Value of inductance decrease within 30%.

Temperature rise current(Irms): A rise in temperature of core surface is within 40℃.