



SMD MOLDED POWER INDUCTORS

LPM 1340 SERIES

FEATURES:

- Lowest height in this package footprint.
- Shielded construction.
- Lowest DCR/uH, in this package size.
- Handles high transient current spikes without saturation.
- Ultra low buzz noise, due to composite construction.

COMMON APPLICATIONS:

- Excellent for power line DC-DC conversion
- Applications used in power switching
- Personal computers and other handheld electronic equipment.

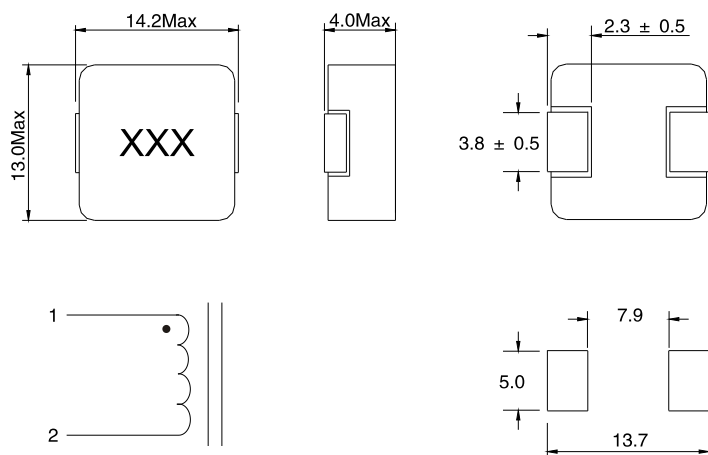
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPM1340-R10M	R10	0.1	33.0	84.0	0.96
LPM1340-R15M	R15	0.15	31.0	75.0	1.2
LPM1340-R22M	R22	0.22	28.5	65.0	1.3
LPM1340-R33M	R33	0.33	26.5	62.0	1.5
LPM1340-R47M	R47	0.47	23.0	55.0	2.0
LPM1340-R60M	R60	0.60	22.0	40.0	3.0
LPM1340-R68M	R68	0.68	22.0	40.0	2.5
LPM1340-R82M	R82	0.82	20.0	38.0	3.0
LPM1340-1R0M	1R0	1.0	19.0	38.0	3.5
LPM1340-1R5M	1R5	1.5	16.0	30.0	5.5
LPM1340-1R8M	1R8	1.8	16.0	26.0	8.3
LPM1340-2R2M	2R2	2.2	15.0	22.0	9.5
LPM1340-3R3M	3R3	3.3	14.0	20.0	12.0
LPM1340-4R7M	4R7	4.7	9.0	15.0	15.0
LPM1340-5R6M	5R6	5.6	8.0	14.0	19.0
LPM1340-6R8M	6R8	6.8	7.0	12.0	24.0
LPM1340-8R2M	8R2	8.2	7.0	12.0	28.0
LPM1340-100M	100	10	6.0	10.0	35.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

- Test Frequency : 100KHz / 0.25Vdc@25°C.
- Testing Instrument : L:HP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- Heat Rated Current (Irms) will cause the coil temperature rise approximately, $\Delta T=40^{\circ}\text{C}$ without core loss.
- Saturation Current (Isat) will cause L0 to drop approximately 25%
- The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Operating Temperature & Storage Temperature: $-55^{\circ}\text{C} - +125^{\circ}\text{C}$.

Dimensions(mm)



Note: All specifications subject to change without notice.



SMD MOLDED POWER INDUCTORS

LPM 1350 SERIES

FEATURES:

- Lowest height in this package footprint.
- Shielded construction.
- Lowest DCR/H, in this package size.
- Handles high transient current spikes without saturation.
- Ultra low buzz noise, due to composite construction.

COMMON APPLICATIONS:

- Excellent for power line DC-DC conversion
- Applications used in power switching
- Personal computers and other handheld electronic equipment.

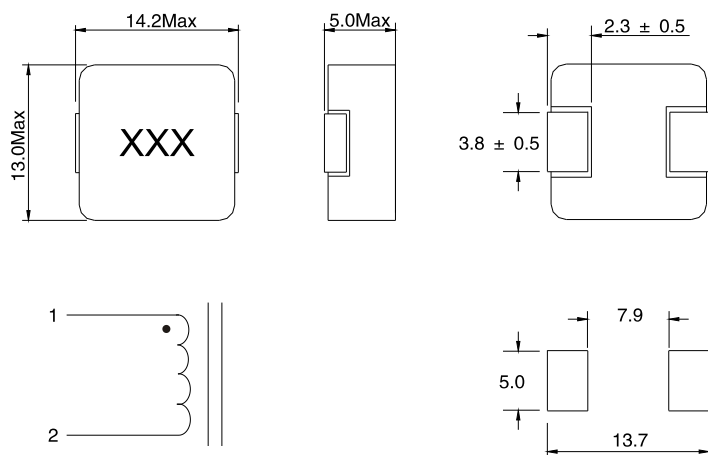
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPM1350-R10M	R10	0.1	45.0	98	0.6
LPM1350-R22M	R22	0.22	41.0	90	0.8
LPM1350-R33M	R33	0.33	32.0	60	1.1
LPM1350-R47M	R47	0.47	25.0	48	1.3
LPM1350-R56M	R56	0.56	23.0	46	1.5
LPM1350-R68M	R68	0.68	20.0	40	1.7
LPM1350-R82M	R82	0.82	19.0	39	2.5
LPM1350-1R0M	1R0	1.0	18.0	35	3.5
LPM1350-1R5M	1R5	1.5	18.0	33	4.1
LPM1350-1R8M	1R8	1.8	17.0	30	4.9
LPM1350-2R2M	2R2	2.2	16.0	25	5.5
LPM1350-3R3M	3R3	3.3	15.0	23	13.0
LPM1350-4R7M	4R7	4.7	12.0	21	15.0
LPM1350-5R6M	5R6	5.6	12.0	20	17.0
LPM1350-6R8M	6R8	6.8	11.0	18	19.0
LPM1350-8R2M	8R2	8.2	10.0	17	22.5
LPM1350-100M	100	10	6.0	13	25.5
LPM1350-470M	470	47	2.5	3.5	90.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

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- Saturation Current (Isat) will cause L0 to drop approximately 25%
- The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Operating Temperature & Storage Temperature: $-55^{\circ}\text{C} - +125^{\circ}\text{C}$.

Dimensions(mm)



Note: All specifications subject to change without notice.



SMD MOLDED POWER INDUCTORS

LPM 1360 SERIES

FEATURES:

- Lowest height in this package footprint.
- Shielded construction.
- Lowest DCR/H, in this package size.
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COMMON APPLICATIONS:

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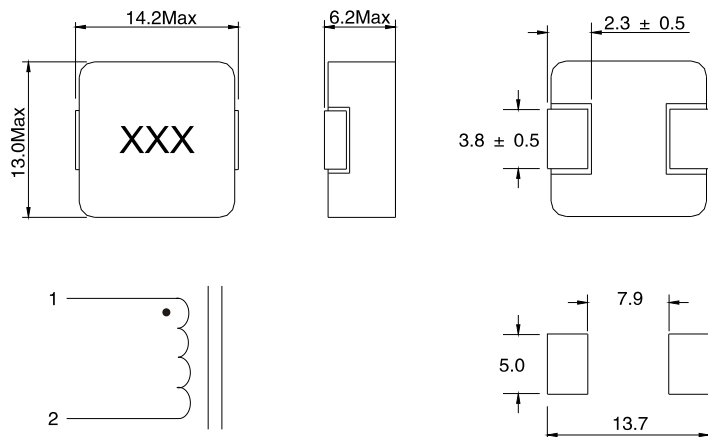
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPM1360-R10M	R10	0.1	60	108	2.0
LPM1360-R15M	R15	0.15	55	105	2.1
LPM1360-R22M	R22	0.22	53	100	2.2
LPM1360-R30M	R30	0.30	48	60	2.3
LPM1360-R33M	R33	0.33	46	55	2.3
LPM1360-R40M	R40	0.40	44	52	2.4
LPM1360-R47M	R47	0.47	41	50	2.5
LPM1360-R56M	R56	0.56	37	48	2.6
LPM1360-R68M	R68	0.68	35	45	2.8
LPM1360-R82M	R82	0.82	25	42	3.0
LPM1360-1R0M	1R0	1.0	21	40	3.5
LPM1360-1R2M	1R2	1.2	21	38	3.8
LPM1360-1R5M	1R5	1.5	21	35	4.0
LPM1360-1R8M	1R8	1.8	20	33	4.2
LPM1360-2R2M	2R2	2.2	20	32	4.5
LPM1360-3R3M	3R3	3.3	15	30	8.2
LPM1360-4R7M	4R7	4.7	12	25	13.5
LPM1360-5R6M	5R6	5.6	12	22	21.0
LPM1360-6R8M	6R8	6.8	11	20	23.0
LPM1360-8R2M	8R2	8.2	10.5	16	15.5
LPM1360-100M	100	10	10	12.5	30.0

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Dimensions(mm)



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