



# SMD HIGH CURRENT POWER INDUCTORS

## LPA 1050 SERIES

### FEATURES:

- High current, low loss of iron powder core
- Low profile for machine placement
- Minimize electromagnetic interference
- Suppress common mode noise
- Prevent EMI effect via precise impedance
- Custom design available

### COMMON APPLICATIONS:

- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators

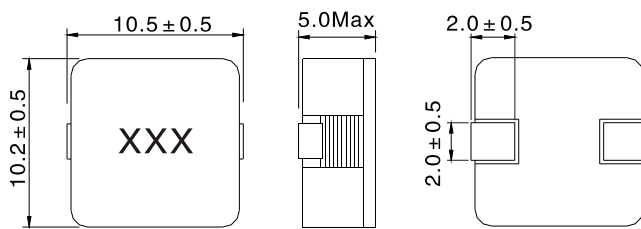
### ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPA1050-R16M	R16	0.16	25.0	58.0	0.56
LPA1050-R40M	R40	0.4	24.0	37.0	0.74
LPA1050-R72M	R72	0.72	22.0	35.0	1.43
LPA1050-1R2M	1R2	1.2	20.0	25.0	1.98
LPA1050-1R8M	1R8	1.8	16.0	18.0	3.85
LPA1050-2R4M	2R4	2.4	14.0	17.0	5.23
LPA1050-3R3M	3R3	3.3	12.0	15.0	6.49
LPA1050-4R2M	4R2	4.2	11.0	14.0	7.81
LPA1050-5R5M	5R5	5.5	10.0	12.0	11.33
LPA1050-6R5M	6R5	6.5	8.4	10.0	13.75
LPA1050-7R8M	7R8	7.8	8.0	9.5	14.96
LPA1050-100M	100	10	7.2	8.5	17.93
LPA1050-160M	160	16	5.0	6.5	37.95

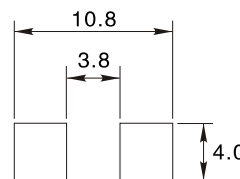
Note:1. K= ± 10%,M= ± 20%,N= ± 30%

### TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

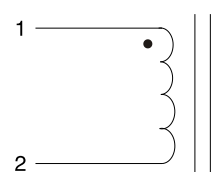
Dimensions(mm)



Land patterns



Winding



Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument : L:HP4284A, WK3260B, WK3261A, WK3265B
- All test data is referenced to 25°C ambient
- Idc: DC current (A) that will cause an approximate ΔT of 50°C
- Isat: DC current (A) that will cause Lo to drop approximately 30%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient t temp rise) should not exceed 125°C under worse 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.
- Packing: 800PCS/REEL

Note:All specifications subject to change without notice.