



SMD HIGH CURRENT POWER INDUCTORS

LPA 1890 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

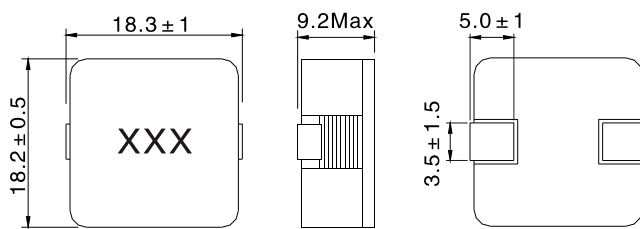
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPA1890-R82M	R82	0.82	41.5	65.0	0.58
LPA1890-1R3M	1R3	1.3	34.5	62.0	1.02
LPA1890-1R9M	1R9	1.9	32.5	52.0	1.3
LPA1890-2R6M	2R6	2.6	31.5	50.0	1.71
LPA1890-3R5M	3R5	3.5	22.5	37.0	3.35
LPA1890-4R5M	4R5	4.5	20.5	37.0	3.67
LPA1890-5R6M	5R6	5.6	19.0	33.0	4.0
LPA1890-6R8M	6R8	6.8	18.5	27.0	4.43
LPA1890-100M	100	10	15.0	21.5	7.45
LPA1890-100MT	100	10	16.5	18.5	7.67
LPA1890-150M	150	15	14.0	14.0	10.05
LPA1890-220M	220	22	11.0	11.0	15.77
LPA1890-330M	330	33	8.5	9.0	24.41
LPA1890-470M	470	47	6.8	7.0	36.72

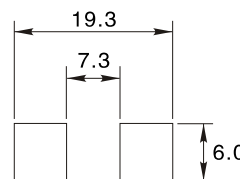
Note: 1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

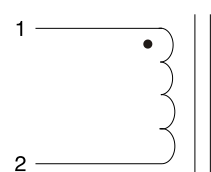
Dimensions(mm)



Land patterns



Winding



Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument : L:HP4284A, WK3260B, WK3261A
- 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: 250PCS/REEL

Note:All specifications subject to change without notice.