

HIGH CURRENT POWER INDUCTORS

LPA2112 SERIES

FEATURES:

- Compact size using flat wire, and SMD type
- Low radiation noise by magnetically shielded construction
- High current
- Low resistance

COMMON APPLICATIONS:

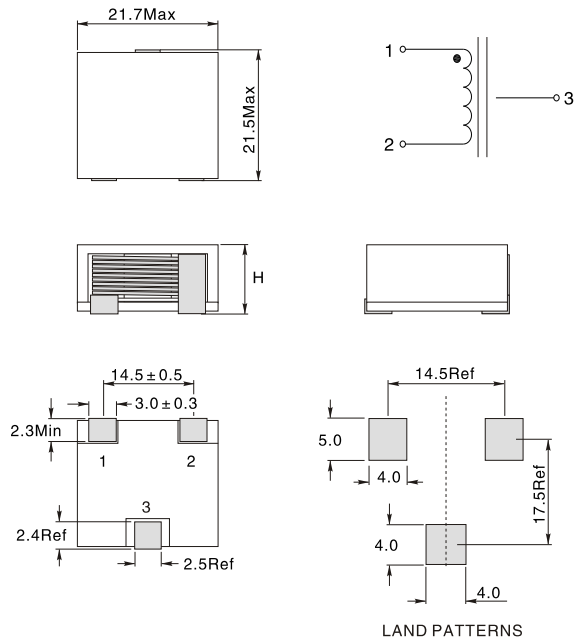
- High efficiency DC/DC converters
- Single and polyphase buck converters
- Filter for audio applications
- Optimized for high current boost applications

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance @100KHz (uH) $\pm 20\%$	DCR (m Ω)Max	Temperature rise current I _{rms} (A)Max	Saturation current @25°C I _{sat} (A)Max	Height (mm)
LPA2112-6R8M	6.8	3.8	22	26	12.5
LPA2112-100M	10.5	6	17.5	22.5	12.5
LPA2112-150M	15.2	9.2	14	18.5	12.5
LPA2112-240M	24.5	15	11	14.5	12.5
LPA2112-320M	32.0	21.5	9	12.5	12.5
LPA2112-500M	50.0	32.6	7.4	10	12.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



- Test Frequency : 100KHz / 0.25V
- Testing Instrument : L:HP4284A, CH11025, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- I_{rms}: DC current (A) that will cause an approximate ΔT of 40°C
- I_{sat}: DC current (A) that will cause L_o to drop approximately 30%
- 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: -40°C – +125°C.
- All specifications subject to change without notice.