

HIGH CURRENT POWER INDUCTORS

LPQ3218 SERIES



FEATURES:

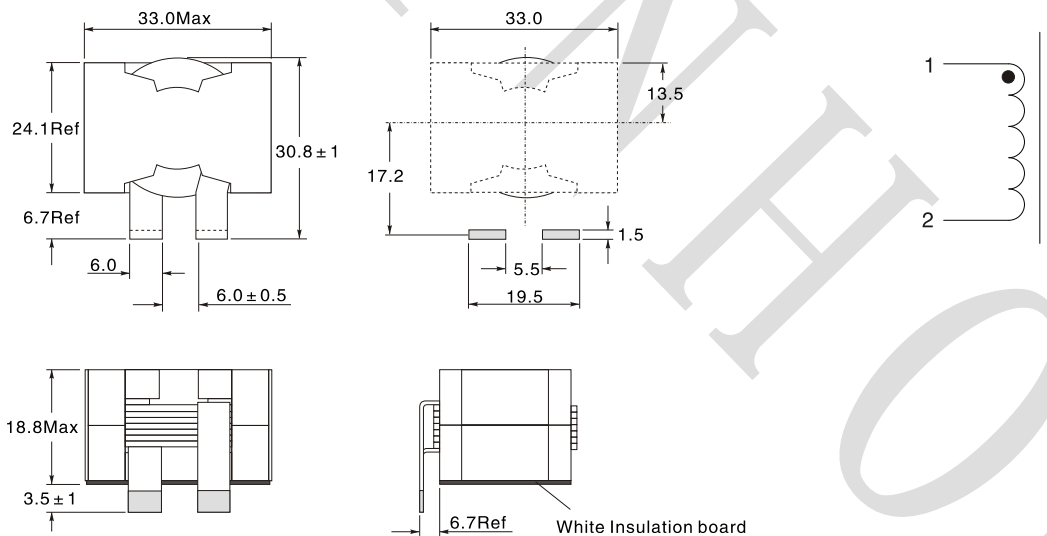
- Assemblage design, sturdy structure
- High inductance, high current, low magnetic loss, low ERS, small parasitic capacitance
- Flat wire winding, achieve a low DCR
- Temperature rise current and saturation current is less influenced by environment

ELECTRICAL CHARACTERISTICS@25°C

Part Number	Inductance 100KHz, 0.1V (uH) ± 10%	DCR (mΩ)Max	Isat (A)typ.	Irms (A)typ.
LPQ3218-3R3M	3.3	1.45	80	45
LPQ3218-4R7M	4.7	1.45	75	45
LPQ3218-5R0M	5.0	1.45	70	45
LPQ3218-6R0M	6.0	1.45	55	45
LPQ3218-6R8M	6.8	1.45	50	45

Note: 1. K= ± 10%, M= ± 20%, N= ± 30%

PHYSICAL CHARACTERISTICS & WINDING



- All test data is referenced to 25°C ambient.
- Test condition: 100KHz, 0.1V
- 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 approximate 30%.
- Operating temperature range is -25°C to 125°C.
- The part temperature (ambient and 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.