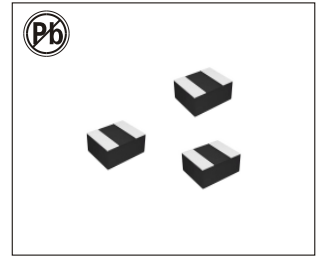


SMD MOLDED POWER INDUCTORS

LPM0110 SERIES



FEATURES:

- High performance (Isat) realized by metal dust core.
- Low profile: 1.20mm x 1.00mm x 0.80mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLCATIONS:

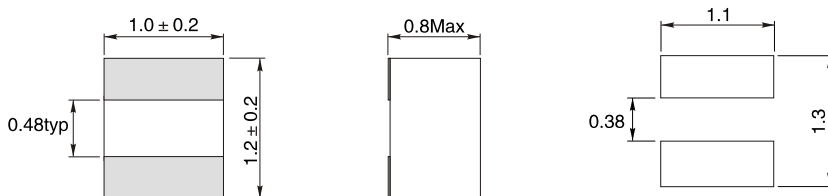
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance tolerance	Inductance L0(μH) @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPM0110-R22M	20%	0.22	1.7	2.16	60
LPM0110-R33M	20%	0.33	1.53	1.90	80
LPM0110-R47M	20%	0.47	1.40	1.40	96
LPM0110-1R0M	20%	1.0	0.95	1.04	201
LPM0110-1R5M	20%	1.5	0.81	0.74	276
LPM0110-2R2M	20%	2.2	0.75	0.61	338
LPM0110-3R3M	20%	3.3	0.52	0.47	516
LPM0110-4R7M	20%	4.7	0.43	0.41	748
LPM0110-100M	20%	10	0.32	0.32	1500

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 1.0MHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (I_{rms}) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.