Trans-inductor regulator power inductor - MLR100612

MEISONGBEI



Features

- Ferrite core material
- Dual winding
- Low DCR TLVR Inductor

Applications

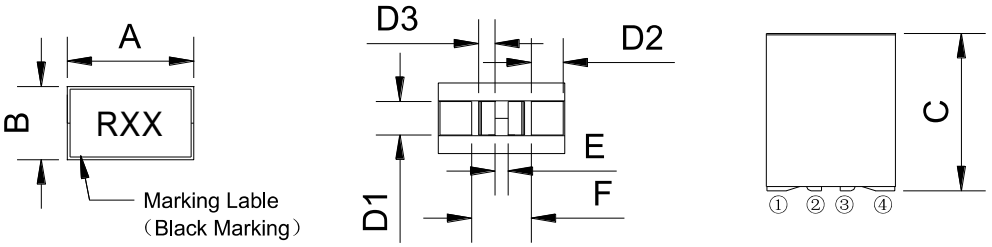
- Multi-phase and Vcore regulators
- Server and desktop, CPU, GPU
- Data networking and storage systems

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

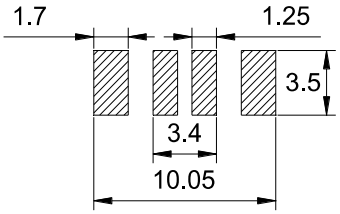
RoHS COMPLIANT | REACH COMPLIANT | Halogen Free

Dimensions & Configurations (Unit:mm)

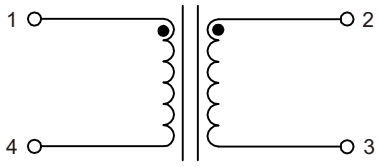


Type	A	B	C	D1	D2	D3	E	F
MLR100612	10.0 Max	6.0 Max	12.0 Max	3.0 ± 0.5	2.2 ± 0.5	1.1 typ	1.5 typ	5.5 typ

Recommended Pad Layout



Schematic



Electrical Characteristics @25°C, 100kHz,1V

Part Number	L [nH] 1-4/2-3	Li [nH] 1-4	DCR [mΩ] ±10%		Isat [A]			Irms [A]	
			1-4	2-3	25°C	100°C	125°C	1-4	2-3
MLR100612-R07L	70 ±15%	50.0	0.125	0.45	127	110	100	75	43
MLR100612-R08L	80 ±15%	57.0	0.125	0.45	111	96	87	75	43
MLR100612-R09L	90 ±15%	64.0	0.125	0.45	98	85	77	75	43
MLR100612-R10L	100 ±15%	72.0	0.125	0.45	89	77	70	75	43
MLR100612-R12L	120 ±15%	86.0	0.125	0.45	74	64	64	75	43
MLR100612-R15L	150 ±15%	108.0	0.125	0.45	59	51	51	75	43
MLR100612-R17L	170 ±15%	108.0	0.125	0.45	52	45	45	75	43

- Isat is the DC current which causes the inductance drop to Li.
- Irms is the DC current which causes the surface temperature of the part increase approximately 40°C