



1. Features of L201316Q Series :

- Alloy powder based DIP Inductor with lower core loss.
- No thermal aging concerns.
- Inductance Range: 1.00 uH to 290.0 uH , custom values are welcomed.
- High current output chokes, up to 98.0 Amp with approx. 30% roll off.
- For high performance switch mode power converters.
- Foot Print 33.0 x 32.0mm max. , 31.6mm max. Height.
- Operating Temperature Range: -55°C to + 150°C.
- AEC-Q200 compliant.
- RoHs & HF compliant.
- MTBF = 2,083,333,333 hours, FIT = 0.48 (per billions hour) per Telcordia SR-332.



2. Electrical Characteristics of L201316Q Series:

ITG Part Number	OCL ¹ (uH) ± 20%	DCR (mΩ) ± 10% @25°C	Isat1 ² (A) @25°C	Isat2 ² (A) @25°C	L@Isat2 ² (uH) Min.	Isat3 ² (A) @25°C	L@Isat3 ² (uH) Min.	Irms ³ (A) @25°C
L201316Q-1R0MHF	1.00	0.21	60.00	98.00	0.62	171.00	0.44	123.00
L201316Q-2R0MHF	2.00	0.31	50.00	76.00	1.20	122.00	0.86	106.00
L201316Q-3R3MHF	3.30	0.39	40.50	61.00	1.98	99.00	1.41	95.00
L201316Q-110MHF	11.60	0.86	52.50	75.00	6.94	111.00	4.95	72.00
L201316Q-240MHF	24.00	1.70	36.50	52.00	14.40	77.00	10.30	50.00
L201316Q-330MHF	33.00	2.40	31.50	45.00	19.20	66.00	13.70	42.00
L201316Q-470MHF	47.00	3.40	26.00	37.50	27.70	55.00	19.80	35.00
L201316Q-520MHF	52.00	3.50	23.50	35.50	30.90	52.00	22.00	34.00
L201316Q-101MHF	105.00	7.10	17.40	25.00	62.40	37.00	44.60	24.00
L201316Q-131MHF	135.00	10.10	15.20	21.80	82.00	32.00	58.00	21.00
L201316Q-171MHF	175.00	13.20	13.50	19.20	104.00	28.50	74.00	18.00
L201316Q-201MHF	200.00	13.80	12.70	18.20	117.00	27.00	83.00	17.50
L201316Q-251MHF	245.00	17.00	11.50	16.50	144.00	24.00	102.00	15.50
L201316Q-291MHF	290.00	21.00	10.50	15.00	173.00	22.00	123.00	14.00

Notes:

1. Open Circuit Inductance (OCL) and L@Isat are measured at 10KHz, 0.1V@ 25°C.
2. Isat1: DC current that causes inductance to drop 20%(Typ.) from OCL (Ta=25°C).
Isat2: DC current that causes inductance to drop 30%(Typ.) from OCL ;(Ta=25°C).
Isat3: DC current that causes inductance to drop 50%(Typ.) from OCL ;(Ta=25°C).
3. Irms: DC current for an approximate temperature rise of 40°C without core loss. Derating is necessary for AC currents. PCB pad layout, trace thickness and width, air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature not exceed 150°C under worst case operating conditions as verified in the end application.



4. Inductance vs. Current Characteristics of L201316Q Series :

