

Shielded Surface Mount Inductors



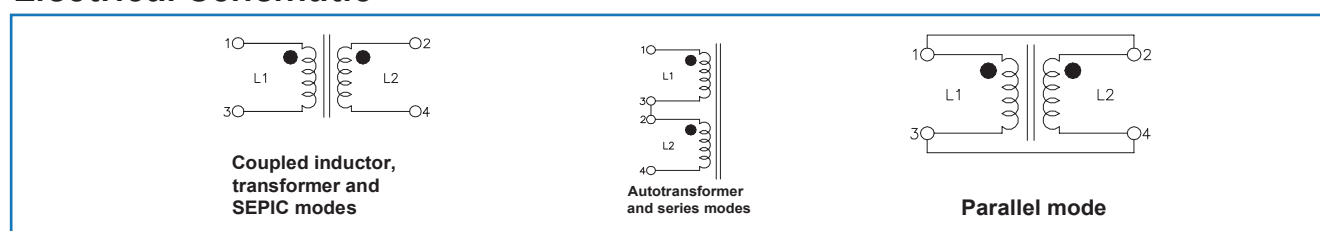
MODELS HM78D1210XXXMLF

Features

- Operating Temperature Range -40°C to +125°C
- Temperature Rise, Maximum 40°C
- Ideal for SEPIC applications, high inductance, high efficiency and excellent current handling in rugged, low cost part
- Use as DC-DC converter and in applications like hand phones, CD/DVD player, digital camera, GPS system. Also used as two single inductors connected series or parallel or as 1:1 transformer
- RoHS Compliant



Electrical Schematic



Specifications @ 25°C

Leads connected in parallel						Leads connected in series				
Part Number	L (μH)	DCR Max (Ω)	I _{rated} (A)	I _{sat} (A)	I _{rms} (A)	L (μH)	DCR Max (Ω)	I _{rated} (A)	I _{sat} (A)	I _{rms} (A)
HM78D-12104R7MLF	4.70±20%	0.014	10.60	18.00	3.250	18.80±25%	0.056	5.30	9.00	1.625
HM78D-12106R8MLF	6.80±20%	0.017	10.40	14.20	3.100	27.20±25%	0.068	5.20	7.10	1.550
HM78D-12108R2MLF	8.20±20%	0.018	9.50	12.85	2.250	32.80±25%	0.072	4.75	6.45	1.125
HM78D-1210100MLF	10.00±20%	0.020	8.60	11.75	3.200	41.12±25%	0.080	4.30	5.85	1.600
HM78D-1210220MLF	22.00±20%	0.040	5.40	8.20	2.700	88.00±25%	0.160	2.70	4.10	1.350
HM78D-1210330MLF	33.00±20%	0.050	4.50	6.60	2.000	132.00±25%	0.200	2.25	3.30	1.000
HM78D-1210470MLF	47.00±20%	0.065	3.70	5.50	1.900	188.00±25%	0.260	1.85	2.75	0.950
HM78D-1210560MLF	56.00±20%	0.081	3.28	4.90	0.850	224.00±25%	0.324	1.64	2.45	0.425
HM78D-1210680MLF	68.00±20%	0.098	2.96	4.45	0.800	272.00±25%	0.392	1.48	2.20	0.400
HM78D-1210101MLF	100.00±20%	0.128	2.54	3.70	0.700	400.00±25%	0.512	1.27	1.85	0.350
HM78D-1210121MLF	120.00±20%	0.170	2.38	3.40	0.630	480.00±25%	0.680	1.19	1.70	0.315
HM78D-1210331MLF	330.00±20%	0.440	1.32	2.10	0.410	1320.00±25%	1.760	0.66	1.05	0.205
HM78D-1210471MLF	470.00±20%	0.570	1.22	1.80	0.300	1880.00±25%	2.280	0.61	0.90	0.150

Notes : (1) Inductance is measured at 100kHz, 0.1Vrms, 0Adc.
 (2) When leads connected in parallel, DCR is half the value.
 (3) I_{sat} current is the saturation current at which inductance rolls off approximately 30% from its initial (zero DC) value.
 (4) I_{rms} equals DC current, that causes component to increase by 40°C from 25°C ambient.
 (5) I_{rated} current is the rated current at which inductance rolls off approximately 10% from its initial (zero DC) value.

Mechanical Outline (mm)

Top View			Side View			Bottom View			Recommended Solder Pad Layout									
Case Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S
1210	12.5	12.5	10.5	7.0	5.0	2.5	1.7	4.2	5.5	4.5	2.0	12.8	4.2	4.5	2.0	4.2	5.5	4.5

General Note

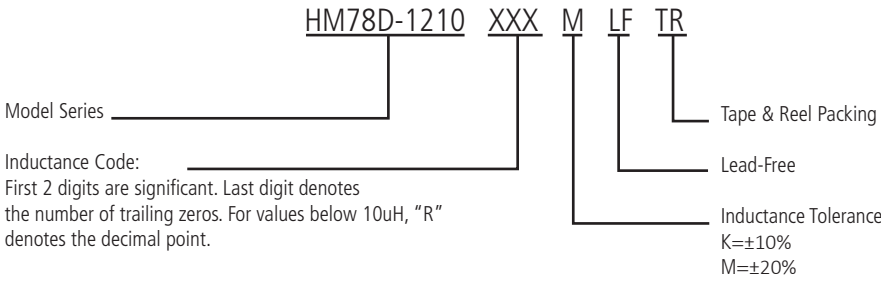
TT Electronics reserves the right to make changes in product specification without notice or liability.
 All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

Packaging

- 1) Tape and reel packaging.

2) 300pcs per 13" reel.

Ordering Information



General Note

TT Electronics reserves the right to make changes in product specification without notice or liability.
All information is subject to TT Electronics' own data and is considered accurate at time of going to print.