

## **Electrical / Environmental**

## HM78D-1210XXXMLF





## Surface Mount Coupled Inductors

• Operating Temperature Range

-40℃ to +125℃

• Ambient Temperature, Maximum

+85℃ 40℃

• Temperature Rise, Maximum

 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

## 

Specifications @ 25℃										
	Leads connected in parallel					Leads connected in series				
Part Number	L (μH)	DCR max (Ω)	Irated (A)	Isat (A)	Irms (A)	L (µH)	DCR max (Ω)	Irated (A)	Isat (A)	Irms (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. When lead connected in series, DCR is twice the value
- (3) Isat current is the saturation current at which inductance rolls off approximately 30% from its initial (zero DC) value.
- (4) Irms equals DC current, that causes component to increase by 40℃ from 25℃ ambient.
- (5) Irated current is the rated current at which inductance rolls off approximately 10% from its initial (zero DC) value.



