Magnetics

Shielded Surface Mount Coupled Inductors

Model HA78D-L128XXXLFTR

Features and Benefits

- Operating Temperature Range -50°C to +155°C
- Temperature Rise, Maximum 40°C
- AEC-Q200 CERTIFIED
- RoHS Compliant

TT Electronics



Part Number	Inductance 100kHz	Inductance 100kHz	Leakage ⁽¹⁾ Inductance 100kHz 0.1V	Heating Current ⁽²⁾		Isat ⁽³⁾ Saturation	DC Resistance	
	0.1V (Parallel)	0.1V (Series)		Both Winding	One Winding	Current	Parallel	Series
	@ 0Adc μH ± 20%	@ 0Adc μH ± 25%	μΗ ΤΥΡ	Amps	Amps	Amps	mΩ Max	mΩ Max
HA78D-L128100MLFTR	10.0	40.0	2.75	2.56	3.62	10.66	29.0	116.0
HA78D-L128220MLFTR	22.0	88.0	5.85	1.99	2.81	7.26	48.0	192.0
HA78D-L128330MLFTR	33.0	132.0	10.1	1.59	2.25	6.52	75.0	300.0
HA78D-L128470MLFTR	47.0	188.0	14.5	1.45	2.05	4.60	90.0	360.0

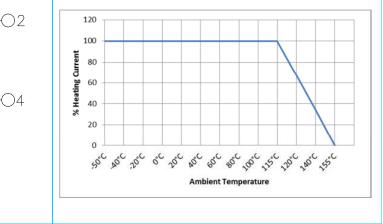
Specifications @ 25°C

Notes: (1) Leakage inductance is for L1 and is measured with L2 shorted.

- (2) The Heating Current is the DC current which causes the component temperature to increase by approximately 40°C from 25°C ambient. This current is determined by soldering the component on a typical application PCB, and then applying the current to the component for 30 minutes. Heating current in both winding is under series configuration.
- (3) Isat is the saturation current at which inductance rolls off approximately 30% from its initial unbiased inductance value. It is sum of current flowing on both winding (parallel configuration).
- (4) PC Board layout, proximity of other components, trace size and airflow will affect temperature rise and must be considered when selecting an inductor.

Electrical Schematic 1(120 100 % Heating Current L2 | 1 80 60 30 \mathcal{A} 40 20 Coupled inductor, 0 soc transformer and SEPIC modes

Derating Curve

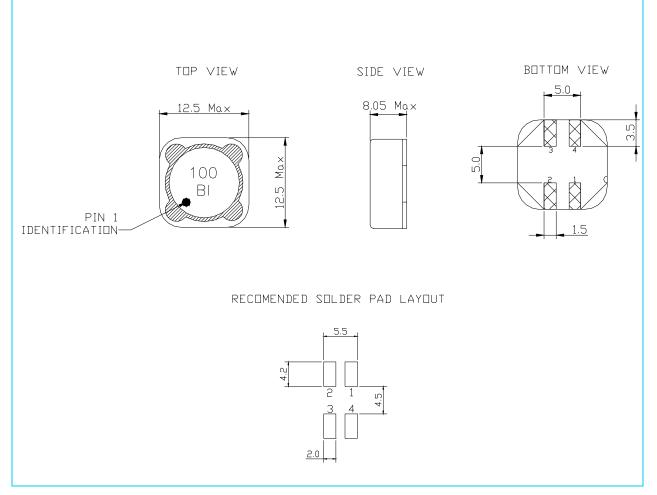


General Note

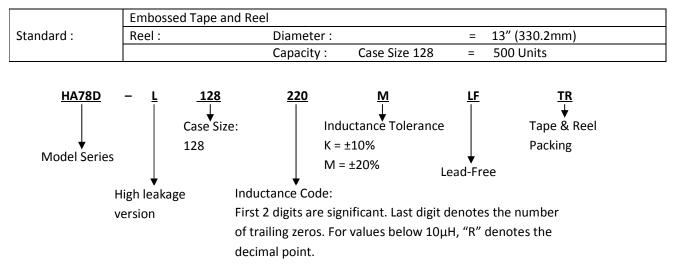
TT Electronics reserves the right to make changes in product specification without notice or liability.

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Mechanical Outline Dimensions (mm)



Packing / Ordering Information



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