

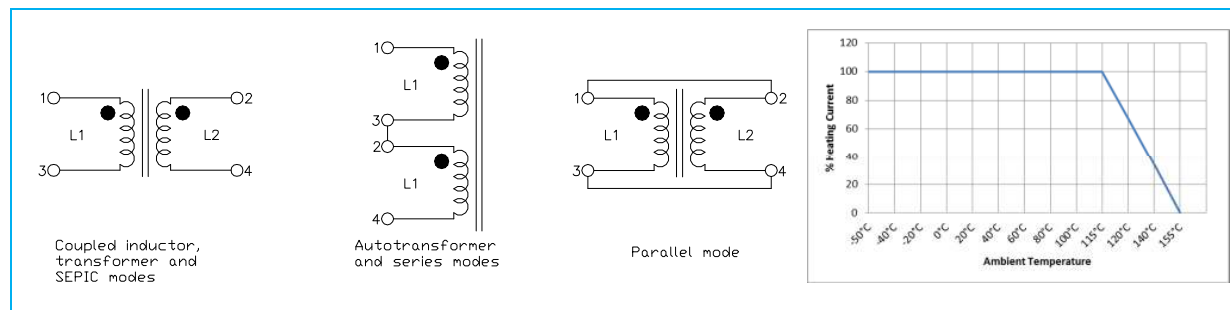
## Shielded Surface Mount Coupled Inductors

MODELS HA78D-128XXXXLF

- Operating Temperature Range -50°C to +155°C
- Temperature Rise, Maximum 40°C
- Operating Frequency Up to 3MHz
- AEC-Q200 CERTIFIED
- RoHS Compliant



### Electrical Schematic & Derating Curve



### Specifications @ 25°C

Part Number	Parallel Connection				Series Connection			
	L <sup>(1)</sup> (μH)	DCR Max <sup>(2)</sup> (Ω)	I <sub>sat</sub> <sup>(3)</sup> (A)	I <sub>rms</sub> <sup>(4)</sup> (A)	L <sup>(1)</sup> (μH)	DCR Max <sup>(2)</sup> (Ω)	I <sub>sat</sub> <sup>(3)</sup> (A)	I <sub>rms</sub> <sup>(4)</sup> (A)
HA78D-1284R7MLF	4.7 ± 20%	0.019	14.90	7.40	18.8 ± 25%	0.076	7.70	3.60
HA78D-1285R6MLF	5.6 ± 20%	0.023	13.40	7.20	22.4 ± 25%	0.092	6.60	3.50
HA78D-1286R8MLF	6.8 ± 20%	0.024	13.10	6.90	27.2 ± 25%	0.096	6.40	3.40
HA78D-1288R2MLF	8.2 ± 20%	0.025	10.80	6.60	32.8 ± 25%	0.100	5.60	3.30
HA78D-128100MLF	10 ± 20%	0.029	10.50	6.20	40 ± 25%	0.116	5.40	3.20
HA78D-128120MLF	12 ± 20%	0.031	9.60	6.00	48 ± 25%	0.124	4.80	2.90
HA78D-128150MLF	15 ± 20%	0.036	9.10	5.80	60 ± 25%	0.144	4.30	2.70
HA78D-128180MLF	18 ± 20%	0.040	8.00	5.50	72 ± 25%	0.158	3.90	2.50
HA78D-128220MLF	22 ± 20%	0.048	6.80	5.20	88 ± 25%	0.190	3.50	2.20
HA78D-128270MLF	27 ± 20%	0.060	6.50	4.70	108 ± 25%	0.240	3.40	2.00
HA78D-128330MLF	33 ± 20%	0.075	5.60	4.20	132 ± 25%	0.300	3.10	1.70
HA78D-128390MLF	39 ± 20%	0.080	5.50	3.60	156 ± 25%	0.320	2.80	1.60
HA78D-128470MLF	47 ± 20%	0.090	5.20	3.00	188 ± 25%	0.360	2.60	1.50
HA78D-128560MLF	56 ± 20%	0.095	4.50	2.80	224 ± 25%	0.380	2.40	1.40
HA78D-128680MLF	68 ± 20%	0.105	4.10	2.60	272 ± 25%	0.420	2.10	1.30
HA78D-128820MLF	82 ± 20%	0.140	3.80	2.30	328 ± 25%	0.560	1.90	1.20
HA78D-128101MLF	100 ± 20%	0.150	3.40	2.00	400 ± 25%	0.600	1.70	1.10
HA78D-128121KLF	120 ± 10%	0.205	3.20	1.90	480 ± 25%	0.820	1.60	1.00
HA78D-128151KLF	150 ± 10%	0.230	2.80	1.80	600 ± 25%	0.920	1.40	0.89
HA78D-128181KLF	180 ± 10%	0.255	2.50	1.70	720 ± 25%	1.02	1.30	0.84
HA78D-128221KLF	220 ± 10%	0.345	2.30	1.60	880 ± 25%	1.38	1.10	0.75
HA78D-128271KLF	270 ± 10%	0.450	2.10	1.50	1080 ± 25%	1.80	1.00	0.71
HA78D-128331KLF	330 ± 10%	0.510	1.90	1.30	1320 ± 25%	2.04	0.92	0.62
HA78D-128391KLF	390 ± 10%	0.560	1.70	1.10	1560 ± 25%	2.24	0.84	0.53
HA78D-128471KLF	470 ± 10%	0.765	1.60	0.87	1880 ± 25%	3.06	0.80	0.43
HA78D-128561KLF	560 ± 10%	0.845	1.50	0.83	2240 ± 25%	3.38	0.73	0.40
HA78D-128681KLF	680 ± 10%	1.145	1.30	0.76	2720 ± 25%	4.58	0.63	0.36
HA78D-128821KLF	820 ± 10%	1.275	1.20	0.69	4000 ± 30%	5.10	0.58	0.33
HA78D-128102KLF	1000 ± 10%	1.415	1.10	0.60	4800 ± 30%	5.66	0.56	0.30

#### General Note

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# Shielded Surface Mount Coupled Inductors



## MODELS HA78D-128XXXXLF

- Notes: (1) Inductance is measured at 100 kHz, 0.1Vrms without DC current.  
 (2) DCR for 128 series is of Max. value.  
 (3)  $I_{sat}$  is the saturation current at which inductance rolls off approximately 30% from its initial (zero DC) value.  
 (4)  $I_{rms}$  is the approximate current at which  $\Delta T = 40^{\circ}C$ .

## Outline Dimensions (mm)

Case Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S
128	12.5	12.5	8.05	5.0	5.0	3.5	1.5	4.2	5.5	4.5	2.0	12.8	4.2	4.5	2.0	4.2	5.5	4.5

## Packaging

Standard:	Embossed Tape and Reel		
	Reel:	Diameter:	= 13" (330.2mm)
		Capacity: Case size 128	= 500 Units

## Ordering Information



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