ARH127-M Series

Features

- High efficiency, high coupling
- High rated current, low DC resistance
- Qualifued to AEC-Q200.
- Halogen Free.

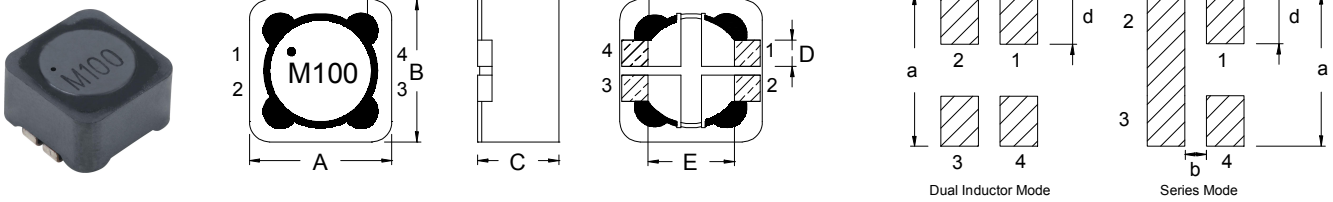
Applications

- Excellent for Desktop and servers,DVD and media players,DC-DC Converters,VBM inductor for CPU and DDR power,Input and output filter chokes.
- Automotive applications.

Test Equipment and Conditions

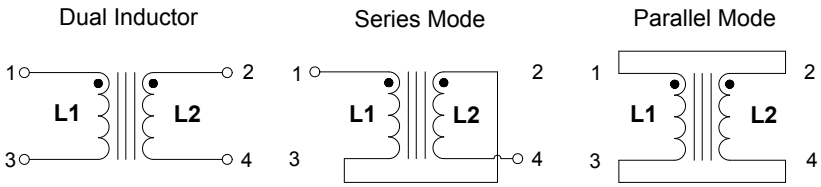
- All test data is referenced to 25℃ ambient.
- Operating temperature range -40℃ to +125℃.(Including self - temperature rise)
- DC current (Irms) that will cause an approximate△T of 40℃.
- DC current (Isat) that will cause L0 to drop approximately 35%.
- Test frequency at 100KHz,0.25V.

External Dimensions (Unit : m/m)



TYPE	A	B	C	D Typ.	E Typ.	a Typ.	b Typ.	c Typ.	d Typ.	Q'TY/Reel
ARH127	12.5Max	12.5Max	8.0Max	2.0	8.0	13.8	0.5	2.5	3.85	350

Schematics



Part Number Code

ARH	127	M	R47	M
A	B	C	D	E

A:	Type of product	Power Inductors
B:	Dimensions(mm)	12：12.5 x12.5x 8.0 Max
C:	Tolerance	M：±20%
D:	Inductance	R47=0.47uH
E:	Materials	M Type

ARH127-M Series

Part Number	Rated Inductance (μH)	Parallel Ratings				Series Ratings			
		OCL ±20% （uH）	Irms （A）	Isat （A）	DCR (Ω) Typ	OCL ±20% （uH）	Irms （A）	Isat （A）	DCR (Ω) Typ
ARH127MR47M	0.47	0.419	18.10	56.60	0.00193	1.676	9.00	28.30	0.0078
ARH127M1R0M	1.0	0.821	15.70	40.40	0.00258	3.284	7.80	20.00	0.0102
ARH127M1R5M	1.5	1.357	13.65	31.42	0.00338	5.428	6.84	15.80	0.0136
ARH127M2R2M	2.2	2.027	12.65	25.80	0.00369	8.108	6.30	12.80	0.0159
ARH127M3R3M	3.3	2.831	10.50	21.72	0.00561	11.32	5.29	10.90	0.0226
ARH127M4R7M	4.7	4.841	8.33	16.67	0.00908	19.36	4.18	8.35	0.0363
ARH127M6R8M	6.8	7.387	7.40	13.45	0.0114	29.55	3.70	6.75	0.0460
ARH127M8R2M	8.2	8.861	6.39	12.35	0.0155	35.44	3.20	6.15	0.0620
ARH127M100M	10	10.47	6.10	11.32	0.0170	41.88	3.05	5.65	0.0680
ARH127M150M	15	14.09	5.08	9.76	0.0244	56.36	2.51	4.90	0.0980
ARH127M220M	22	22.93	4.05	7.65	0.0388	91.72	2.05	3.80	0.1554
ARH127M330M	33	33.92	3.26	6.29	0.0594	135.7	1.63	3.15	0.2390
ARH127M470M	47	47.05	2.98	5.33	0.0711	188.2	1.47	2.66	0.2853
ARH127M680M	68	66.48	2.45	4.48	0.1040	265.9	1.235	2.240	0.417
ARH127M820M	82	79.75	2.15	4.11	0.1415	319.0	1.050	2.050	0.568
ARH127M101M	100	99.31	1.98	3.67	0.1615	397.2	0.980	1.850	0.645
ARH127M151M	150	144.9	1.60	3.05	0.2445	579.6	0.805	1.530	0.979
ARH127M221M	220	221.5	1.32	2.45	0.3725	886.0	0.650	1.230	1.49
ARH127M331M	330	323.6	1.06	2.05	0.57	1294	0.527	1.010	2.27
ARH127M471M	470	467.1	0.87	1.70	0.856	1868	0.430	0.845	3.4
ARH127M681M	680	676.7	0.78	1.40	1.07	2707	0.385	0.705	4.28
ARH127M821M	820	818.1	0.66	1.27	1.45	3272	0.328	0.640	5.84
ARH127M102M	1000	1005	0.63	1.15	1.65	4020	0.310	0.575	6.58