Electrical / Environmental

HM87

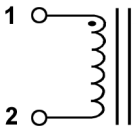
Surface Mount Inductors

- Operating Temperature Range -40°C to +85°C
- Ambient Temperature, Maximum +85°C
- Temperature Rise, Maximum 40°C

NEW

RoHS Compliant

Schematic



Specifications @ 25°C

Part Number	Inductance µH ± 20%(1)	DC Resistance Ω Max.	Rated Current (2) Amps	Figure
HM87-06101R2LF	1.2	0.08	2.10	1
HM87-06101R5LF	1.5	0.10	1.90	1
HM87-06102R2LF	2.2	0.12	1.60	1
HM87-06103R3LF	3.3	0.16	1.30	1
HM87-06104R7LF	4.7	0.20	1.10	1
HM87-06106R8LF	6.8	0.32	0.90	1
HM87-0610100LF	10	0.41	0.80	1
HM87-0610150LF	15	0.65	0.65	1
HM87-0610220LF	22	0.85	0.50	1
HM87-0610330LF	33	1.30	0.40	1
HM87-0610470LF	47	1.80	0.35	1
HM87-0610680LF	68	2.50	0.30	1
HM87-0610101LF	100	3.50	0.25	1
HM87-0610151LF	150	6.50	0.18	1
HM87-0610221LF	220	8.50	0.16	1
HM87-0610331LF	330	15.00	0.13	1
HM87-06121R2LF	1.2	0.060	1.80	1
HM87-06122R2LF	2.2	0.125	1.20	1
HM87-06123R3LF	3.3	0.155	0.96	1
HM87-06124R7LF	4.7	0.206	0.90	1
HM87-06126R8LF	6.8	0.240	0.80	1
HM87-0612100LF	10	0.370	0.70	1
HM87-0612150LF	15	0.460	0.60	1
HM87-0612180LF	18	0.580	0.56	1
HM87-0612220LF	22	0.668	0.50	1
HM87-0612270LF	27	0.950	0.45	1
HM87-0612330LF	33	1.100	0.42	1
HM87-0612390LF	39	1.280	0.38	1
HM87-0612470LF	47	1.380	0.34	1
HM87-0612560LF	56	1.700	0.30	1
HM87-0612680LF	68	2.100	0.28	1
HM87-0612820LF	82	2.700	0.26	1
HM87-0612101LF	100	3.100	0.235	1
HM87-06201R0LF	1.0	0.04	2.50	1
HM87-06201R5LF	1.5	0.06	2.20	1
HM87-06202R2LF	2.2	0.07	1.80	1
HM87-06203R3LF	3.3	0.10	1.40	1
HM87-06204R7LF	4.7	0.12	1.20	1
HM87-06206R8LF	6.8	0.19	1.10	1
HM87-0620100LF	10	0.30	1.00	1
HM87-0620150LF	15	0.40	0.80	1
HM87-0620220LF	22	0.54	0.60	1
HM87-0620330LF	33	0.74	0.50	1
HM87-0620470LF	47	1.10	0.45	1
HM87-0620680LF	68	1.60	0.35	1
HM87-0620101LF	100	2.30	0.30	1
HM87-0620151LF	150	3.20	0.25	1
HM87-0620221LF	220	5.70	0.20	1
HM87-0620331LF	330	8.20	0.16	1
HM87-0620471LF	470	10.80	0.14	1
HM87-0620681LF	680	17.20	0.12	1
HM87-0620102LF	1000	22.60	0.08	1
HM87-09154R7LF	4.7	0.145	1.60	2
HM87-09156R8LF	6.8	0.165	1.30	2
HM87-0915100LF	10	0.240	1.00	2
HM87-0915150LF	15	0.300	0.90	2
HM87-0915220LF	22	0.420	0.70	2
HM87-0915330LF	33	0.550	0.60	2
HM87-0915470LF	47	0.765	0.50	2
HM87-0915680LF	68	1.100	0.40	2
HM87-0915101LF	100	1.600	0.30	2
HM87-0915151LF	150	2.500	0.25	2
HM87-0915221LF	220	3.650	0.22	2
HM87-0915331LF	330	4.650	0.18	2
HM87-0915471LF	470	6.750	0.14	2
HM87-0915681LF	680	9.150	0.12	2
HM87-0915102LF	1000	14.200	0.10	2

Notes: (1) Inductance is measured at 100kHz and 0.1 Vac.
(2) Rated DC current is the approximate current at which inductance will be decreased by 10% from its initial (zero DC) value or the DC current at which ΔT=40°C, whichever is lower.

Outline Dimensions (mm)

Figure 1

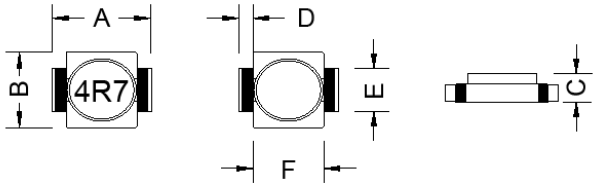
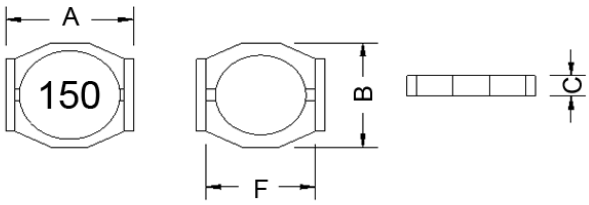
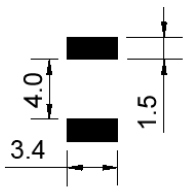
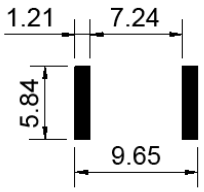


Figure 2



Recommended Solder Pad Layouts





Case Size	Figure	A (Max.)	B (Max.)	C (Max.)	D	E	F
0610	1	6.5	5.6	1.1	0.9	3.0	4.5
0612	1	6.5	5.6	1.2	0.9	3.0	4.5
0620	1	6.5	5.6	2.0	0.9	3.0	4.5
0915	2	9.3	7.87	1.55	–	–	7.24

Packaging

Standard: Embossed Tape and Reel

Reel:	Diameter:		=	13” (330.2mm)
	Capacity:	Case size 0610	=	2000 units
		Case size 0612	=	2000 units
		Case size 0620	=	2000 units
		Case size 0915	=	2000 units

Ordering Information

HM87 - XXXX XXX LF TR13

Model Series

Case Size:
0610 (Figure1), 0612 (Figure 1)
0620 (Figure1), 0915 (Figure 2)

Inductance Code
First 2 digits are significant. Last digit denotes the number of trailing zeros.
For values below 10µH, ‘R’ denotes the decimal point.

Lead-Free

TR -- Tape & Reel Packing
13 -- 13” reel