Electrical / Environmental

HM71



RoHS Compliant

High Performance Low Cost Surface Mount Inductors

- Operating Temperature Range -40°C to +125°C
- Insulation System Class B, 130°C
- Temperature Rise at I_{rms}, Typical 40°C

Specifications

Part Number	Inductance (1) µH ±20%	DC Resistance (4) Ω Max.	I_{SAT} (2) Amps	I_{rms} (3) Amps rms	Competitor Part Number
HM71-101R0LF	1.0	0.05	2.90	2.9	DO1608C-102ML
HM71-101R5LF	1.5	0.05	2.60	2.8	DO1608C-152ML
HM71-102R2LF	2.2	0.07	2.30	2.4	DO1608C-222ML
HM71-103R3LF	3.3	0.08	2.0	2.0	DO1608C-332ML
HM71-104R7LF	4.7	0.09	1.50	1.5	DO1608C-472ML
HM71-106R8LF	6.8	0.13	1.20	1.4	DO1608C-682ML
HM71-10100LF	10	0.16	1.10	1.1	DO1608C-103ML
HM71-10150LF	15	0.23	0.90	1.2	DO1608C-153ML
HM71-10220LF	22	0.37	0.70	0.8	DO1608C-223ML
HM71-10330LF	33	0.51	0.58	0.6	DO1608C-333ML
HM71-10470LF	47	0.64	0.50	0.5	DO1608C-473ML
HM71-10680LF	68	0.86	0.40	0.4	DO1608C-683ML
HM71-10101LF	100	1.27	0.31	0.3	DO1608C-104ML
HM71-10151LF	150	2.0	0.27	0.25	DO1608C-154ML
HM71-10221LF	220	2.65	0.22	0.2	DO1608C-224ML
HM71-10331LF	330	3.80	0.18	0.16	DO1608C-334ML
HM71-10471LF	470	5.06	0.16	0.15	DO1608C-474ML
HM71-10681LF	680	9.20	0.14	0.12	DO1608C-684ML
HM71-10102LF	1000	13.8	0.10	0.07	DO1608C-105ML
HM71-20100LF	10	0.11	2.40	2.0	DO3308P-103ML
HM71-20150LF	15	0.15	2.0	1.5	DO3308P-153ML
HM71-20220LF	22	0.23	1.60	1.3	DO3308P-223ML
HM71-20330LF	33	0.30	1.40	1.1	DO3308P-333ML
HM71-20470LF	47	0.39	1.0	0.8	DO3308P-473ML
HM71-20680LF	68	0.66	0.90	0.7	DO3308P-683ML
HM71-20101LF	100	0.84	0.70	0.6	DO3308P-104ML
HM71-20151LF	150	1.20	0.60	0.5	DO3308P-154ML
HM71-20221LF	220	1.90	0.50	0.4	DO3308P-224ML
HM71-20331LF	330	2.70	0.40	0.3	DO3308P-334ML
HM71-20471LF	470	4.0	0.30	0.2	DO3308P-474ML
HM71-20681LF	680	5.3	0.20	0.1	DO3308P-684ML
HM71-20102LF	1000	8.4	0.10	0.05	DO3308P-105ML
HM71-301R0LF	1.0	0.009	9.0	6.8	DO3316P-102ML
HM71-301R5LF	1.5	0.010	8.0	6.4	DO3316P-152ML
HM71-302R2LF	2.2	0.012	7.0	6.1	DO3316P-222ML
HM71-303R3LF	3.3	0.015	6.40	5.4	DO3316P-332ML
HM71-304R7LF	4.7	0.018	5.40	4.8	DO3316P-472ML
HM71-306R8LF	6.8	0.027	4.60	4.4	DO3316P-682ML
HM71-30100LF	10	0.038	3.80	3.9	DO3316P-103ML
HM71-30150LF	15	0.046	3.0	3.1	DO3316P-153ML

We reserve the right to change specifications without prior notice.

Specifications (Cont'd)

Part Number	Inductance (1) µH ±20%	DC Resistance (4) Ω Max.	I_{SAT} (2) Amps	I_{rms} (3) Amps rms	Competitor Part Number
HM71-30220LF	22	0.085	2.60	2.7	DO3316P-223ML
HM71-30330LF	33	0.10	2.0	2.1	DO3316P-333ML
HM71-30470LF	47	0.14	1.60	1.8	DO3316P-473ML
HM71-30680LF	68	0.20	1.40	1.5	DO3316P-683ML
HM71-30101LF	100	0.28	1.20	1.3	DO3316P-104ML
HM71-30151LF	150	0.40	1.0	1.0	DO3316P-154ML
HM71-30221LF	220	0.61	0.80	0.8	DO3316P-224ML
HM71-30331LF	330	1.02	0.60	0.6	DO3316P-334ML
HM71-30471LF	470	1.27	0.50	0.5	DO3316P-474ML
HM71-30681LF	680	2.02	0.40	0.4	DO3316P-684ML
HM71-30102LF	1000	3.0	0.30	0.3	DO3316P-105ML
HM71-40100LF	10	0.040	8.0	3.5	DO3340P-103ML
HM71-40150LF	15	0.050	7.0	3.0	DO3340P-153ML
HM71-40220LF	22	0.066	5.50	2.5	DO3340P-223ML
HM71-40330LF	33	0.080	4.0	2.0	DO3340P-333ML
HM71-40470LF	47	0.110	3.80	1.6	DO3340P-473ML
HM71-40680LF	68	0.170	3.0	1.2	DO3340P-683ML
HM71-40101LF	100	0.220	2.50	1.2	DO3340P-104ML
HM71-40151LF	150	0.340	2.0	0.9	DO3340P-154ML
HM71-40221LF	220	0.440	1.60	0.7	DO3340P-224ML
HM71-40331LF	330	0.70	1.20	0.6	DO3340P-334ML
HM71-40471LF	470	0.950	1.0	0.3	DO3340P-474ML
HM71-40681LF	680	1.20	1.0	0.2	DO3340P-684ML
HM71-40102LF	1000	2.0	0.80	0.1	DO3340P-105ML
HM71-501R0LF	1.0	0.009	20.0	8.6	DO5022P-102ML
HM71-502R2LF	2.2	0.014	16.0	7.1	DO5022P-222ML
HM71-503R3LF	3.3	0.015	14.0	6.2	DO5022P-332ML
HM71-505R6LF	5.6	0.020	12.0	5.3	DO5022P-562ML
HM71-50100LF	10	0.031	10.0	4.3	DO5022P-103ML
HM71-50150LF	15	0.036	8.0	4.0	DO5022P-153ML
HM71-50220LF	22	0.047	7.0	3.5	DO5022P-223ML
HM71-50330LF	33	0.066	5.50	3.0	DO5022P-333ML
HM71-50470LF	47	0.086	4.50	2.6	DO5022P-473ML
HM71-50680LF	68	0.130	3.50	2.3	DO5022P-683ML
HM71-50101LF	100	0.190	3.0	1.8	DO5022P-104ML
HM71-50151LF	150	0.250	2.60	1.5	DO5022P-154ML
HM71-50221LF	220	0.380	2.40	1.2	DO5022P-224ML
HM71-50331LF	330	0.560	1.90	1.0	DO5022P-334ML
HM71-50471LF	470	0.850	1.40	0.82	DO5022P-474ML
HM71-50681LF	680	1.10	1.20	0.72	DO5022P-684ML
HM71-50102LF	1000	1.80	1.0	0.56	DO5022P-105ML

Notes:
(1) Inductance is measured at 100 kHz, 0.1 Vrms.
(2) I_{SAT} is the saturation current at which inductance rolls off approximately 10%.
(3) I_{rms} is the approximate current at which $\Delta T = 40°C$.
(4) DC resistance is measured at 20°C.

Outline Dimensions (Inch/mm) / Packaging

Figure 1

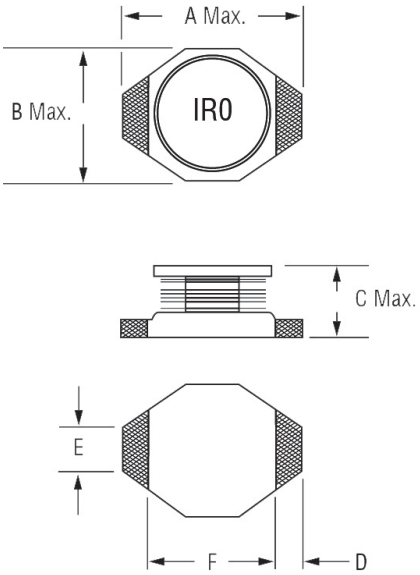
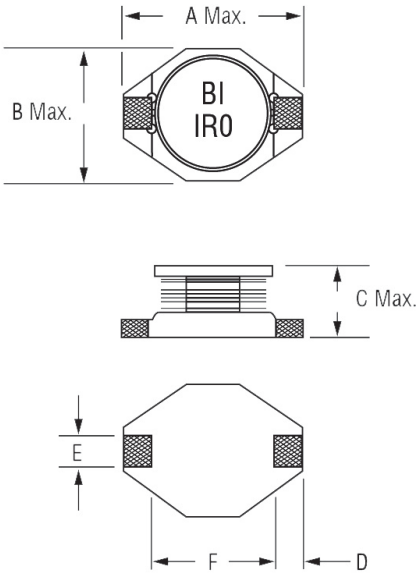
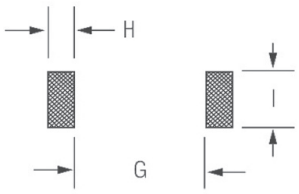
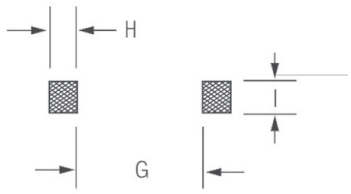


Figure 2



Recommended Solder Pad Layouts





Case Size	Figure	A	B	C	D	E	F	G	H	I	Reel Diameter	Reel Capacity
10	1	.260 6.60	.175 4.45	.115 2.92	.040 1.02	.050 1.27	.170 4.32	.160 4.06	.055 1.40	.140 3.56	7”	500 Units
20	2	.510 12.95	.370 9.40	.118 3.00	.100 2.54	.100 2.54	.300 7.62	.290 7.37	.115 2.92	.110 2.79	13”	1500 Units
30	2	.510 12.95	.370 9.40	.213 5.40	.100 2.54	.100 2.54	.300 7.62	.290 7.37	.115 2.92	.110 2.79	13”	500 Units
40	2	.510 12.95	.370 9.40	.450 11.43	.100 2.54	.100 2.54	.300 7.62	.290 7.37	.115 2.92	.110 2.79	13”	250 Units
50	2	.730 18.54	.600 15.24	.280 7.11	.100 2.54	.100 2.54	.500 12.70	.490 12.45	.115 2.92	.110 2.79	13”	350 Units

Ordering Information

HM71 30 4R7 LF TR

Model Series

Case Size:
- 10 = Figure 1
- 20 = Figure 2
- 30 = Figure 2
- 40 = Figure 2
- 50 = 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

Tape & Reel Packing

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