A FEATURES

- Shielded Construction with very low DCR
- Heating Current rating up to 17.9 Amps
- Saturation Current rating up to 27.5 Amps
- Inductance up to 1mH for all case size (129&159 size up to 2.2mH)
- 260°C reflow peak temperature qualified
- Operating Temperature range from -40°C to +125°C (Including Self-heating)
- High strength sealing epoxy with stable temperatures character to keep the parts strong at wide range temperatures:
  (Typical Hardness: ShoreD86 @25°C, ShoreD70 @125°C)
- Available up to 159 size (15.5×15.5×11.0mm) to meet with higher current requirements
- Available for both Metal Base and Plastic Base from 73 to 129 size:
  Plastic Base: Because of the one piece construction and better adhesion so they are more suitable for high vibration or shock applications
  Metal Base: For general use and more competitive cost than Plastic base

B PART NUMBER SYSTEM

1MA	125	-	100	M	F	P
❶	❷		❸	❹	❺	❻

❶	Series
1MA	Series Code

❷	Dimension Code (L*W*H) (mm)	
	73 (7.6×7.6×3.55)	125 (12.5×12.5×6.0)
	74 (7.6×7.6×4.6)	127 (12.5×12.5×8.0)
	124 (12.5×12.5×4.5)	129 (12.5×12.5×10.0)
	159(15.5×15.5×11.0)	

❸	Inductance Code
e.g.	Calculation
2R2	2.2μH
100	10×10^{0}μH = 10μH
101	10×10^{1}μH = 100μH

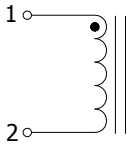
❺	RoHS Compliant

❹	Inductance Tolerance
K	±10%
M	±20%
N	±30%

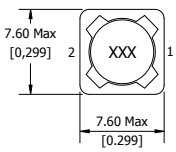
❻	Base Type
P	Plastic Base
M	Metal Base

C DRAWINGS AND DIMENSIONS

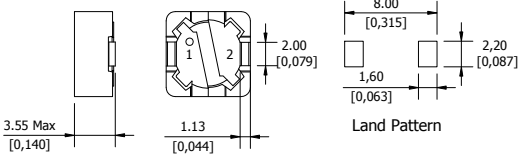
Schematic



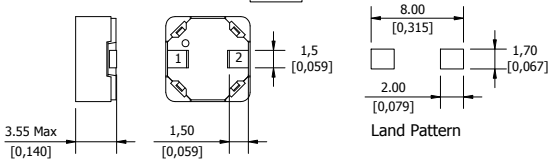
1MA73



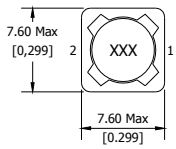
A1



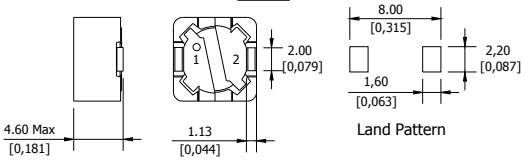
A2



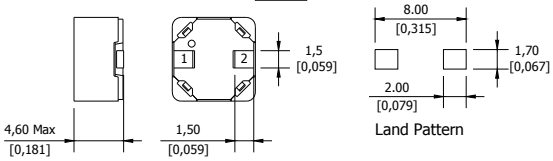
1MA74



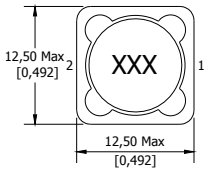
B1



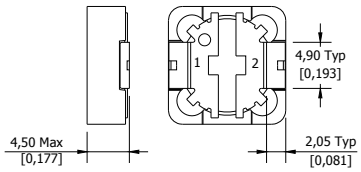
B2



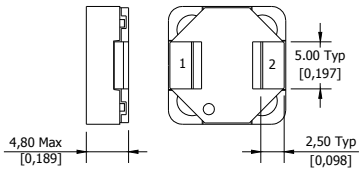
1MA124

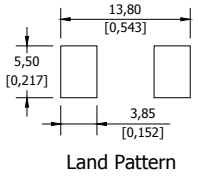


C1

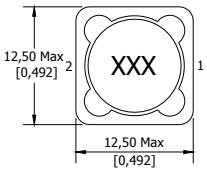


C2

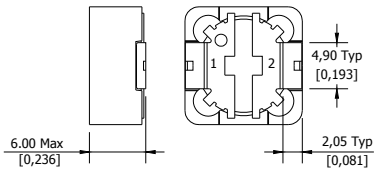




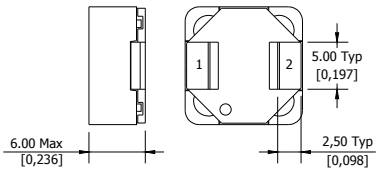
1MA125

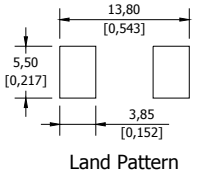


D1

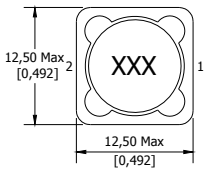


D2

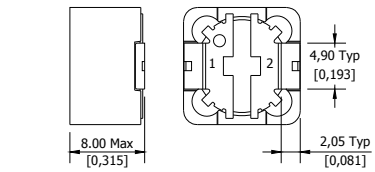




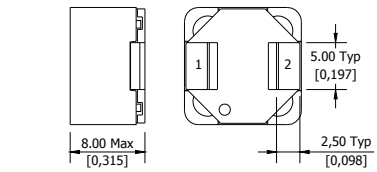
1MA127

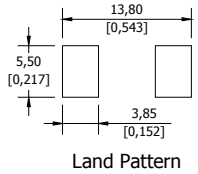


E1

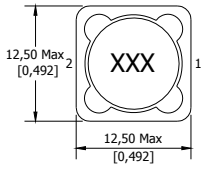


E2

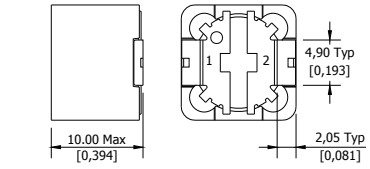




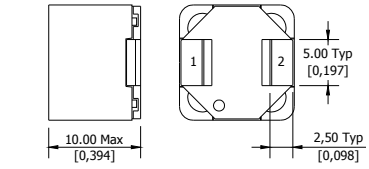
1MA129

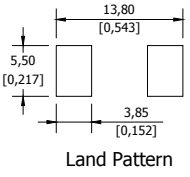


F1

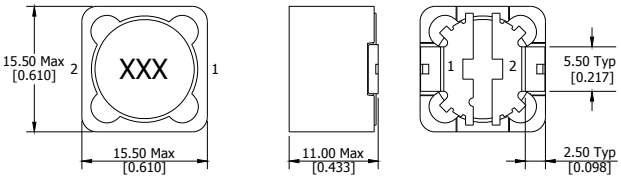


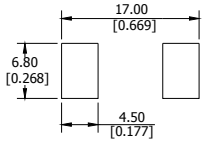
F2





1MA159





Land Pattern

XXX = Inductance value

D SPECIFICATIONS

	Inductance[2]		DCR[3]				Drawing Fig.	
Part Number[1]	μH	Tolerance	Typ.(Ω)	Max.(Ω)	Irms[4](A)	Isat[5] (A)	Metal Base	Plastic Base
1MA73-R33NF_	0.33	±30%	0.0074	0.0111	6.19	11.00	A1	A2
1MA73-1R0NF_	1.00	±30%	0.0103	0.0155	5.25	6.40	A1	A2
1MA73-1R5NF_	1.50	±30%	0.0132	0.0198	4.64	5.60	A1	A2
1MA73-2R2NF_	2.20	±30%	0.0167	0.0234	4.11	4.80	A1	A2
1MA73-3R3NF_	3.30	±30%	0.0259	0.0311	3.31	4.20	A1	A2
1MA73-4R7MF_	4.70	±20%	0.0297	0.0356	3.09	3.60	A1	A2
1MA73-6R8MF_	6.80	±20%	0.0435	0.0522	2.55	2.90	A1	A2
1MA73-8R2MF_	8.20	±20%	0.0592	0.0690	2.19	2.70	A1	A2
1MA73-100MF_	10.0	±20%	0.0656	0.0720	2.08	2.20	A1	A2
1MA73-150MF_	15.0	±20%	0.0844	0.1013	1.83	1.80	A1	A2
1MA73-220MF_	22.0	±20%	0.107	0.128	1.62	1.50	A1	A2
1MA73-330MF_	33.0	±20%	0.166	0.199	1.31	1.20	A1	A2
1MA73-470MF_	47.0	±20%	0.241	0.289	1.08	1.00	A1	A2
1MA73-680MF_	68.0	±20%	0.358	0.430	0.89	0.85	A1	A2
1MA73-820MF_	82.0	±20%	0.384	0.461	0.86	0.80	A1	A2
1MA73-101MF_	100	±20%	0.527	0.632	0.73	0.76	A1	A2
1MA73-151MF_	150	±20%	0.851	1.021	0.58	0.53	A1	A2
1MA73-221MF_	220	±20%	1.050	1.260	0.52	0.49	A1	A2
1MA73-331MF_	330	±20%	1.590	1.908	0.42	0.40	A1	A2
1MA73-471MF_	470	±20%	2.360	2.832	0.35	0.33	A1	A2
1MA73-681MF_	680	±20%	3.470	4.164	0.29	0.26	A1	A2
1MA73-821MF_	820	±20%	3.930	4.716	0.27	0.23	A1	A2
1MA73-102MF_	1000	±20%	4.340	5.208	0.26	0.21	A1	A2
1MA74-R33NF_	0.33	±30%	0.0074	0.0111	6.20	12.50	B1	B2
1MA74-1R0NF_	1.00	±30%	0.0100	0.0150	5.33	10.20	B1	B2
1MA74-1R5NF_	1.50	±30%	0.0115	0.0173	4.96	7.50	B1	B2
1MA74-2R2NF_	2.20	±30%	0.0130	0.0182	4.66	6.50	B1	B2
1MA74-3R3NF_	3.30	±30%	0.0183	0.0220	3.94	5.20	B1	B2
1MA74-4R7MF_	4.70	±20%	0.0254	0.0305	3.34	4.10	B1	B2
1MA74-5R6MF_	5.60	±20%	0.0350	0.0420	3.00	3.90	B1	B2
1MA74-6R8MF_	6.80	±20%	0.0418	0.0460	2.60	3.70	B1	B2
1MA74-8R2MF_	8.20	±20%	0.0441	0.0485	2.53	3.30	B1	B2
1MA74-100MF_	10.0	±20%	0.0450	0.0490	2.41	2.80	B1	B2

	Inductance[2]		DCR[3]				Drawing Fig.	
Part Number[1]	μH	Tolerance	Typ.(Ω)	Max.(Ω)	Irms[4](A)	Isat[5] (A)	Metal Base	Plastic Base
1MA74-120MF_	12.0	±20%	0.0500	0.0580	2.17	2.50	B1	B2
1MA74-150MF_	15.0	±20%	0.0637	0.0764	2.11	2.20	B1	B2
1MA74-180MF_	18.0	±20%	0.0835	0.0910	1.84	2.00	B1	B2
1MA74-220MF_	22.0	±20%	0.0925	0.1100	1.75	1.90	B1	B2
1MA74-270MF_	27.0	±20%	0.125	0.150	1.50	1.70	B1	B2
1MA74-330MF_	33.0	±20%	0.143	0.170	1.41	1.50	B1	B2
1MA74-390MF_	39.0	±20%	0.190	0.228	1.22	1.30	B1	B2
1MA74-470MF_	47.0	±20%	0.216	0.259	1.15	1.20	B1	B2
1MA74-560MF_	56.0	±20%	0.230	0.276	1.11	1.10	B1	B2
1MA74-680MF_	68.0	±20%	0.265	0.318	1.03	1.00	B1	B2
1MA74-820MF_	82.0	±20%	0.345	0.414	0.91	0.90	B1	B2
1MA74-101MF_	100	±20%	0.383	0.460	0.86	0.80	B1	B2
1MA74-121MF_	120	±20%	0.515	0.618	0.74	0.70	B1	B2
1MA74-151MF_	150	±20%	0.591	0.709	0.69	0.65	B1	B2
1MA74-181MF_	180	±20%	0.760	0.912	0.61	0.62	B1	B2
1MA74-221MF_	220	±20%	0.907	1.088	0.56	0.59	B1	B2
1MA74-271MF_	270	±20%	1.210	1.452	0.48	0.55	B1	B2
1MA74-331MF_	330	±20%	1.410	1.692	0.45	0.49	B1	B2
1MA74-391MF_	390	±20%	1.525	1.830	0.43	0.45	B1	B2
1MA74-471MF_	470	±20%	1.740	2.088	0.40	0.41	B1	B2
1MA74-561MF_	560	±20%	2.220	2.664	0.36	0.38	B1	B2
1MA74-681MF_	680	±20%	2.580	3.096	0.33	0.36	B1	B2
1MA74-821MF_	820	±20%	2.930	3.516	0.31	0.30	B1	B2
1MA74-102MF_	1000	±20%	3.890	4.668	0.27	0.27	B1	B2
1MA124-R47NF_	0.47	±30%	0.0045	0.0055	9.50	20.90	C1	C2
1MA124-1R0NF_	1.00	±30%	0.0055	0.0063	8.50	18.40	C1	C2
1MA124-1R5NF_	1.50	±30%	0.0087	0.0097	7.80	10.64	C1	C2
1MA124-2R7NF_	2.70	±30%	0.0103	0.0115	6.80	9.69	C1	C2
1MA124-3R3NF_	3.30	±30%	0.0115	0.0130	6.30	8.46	C1	C2
1MA124-4R7MF_	4.70	±20%	0.0135	0.0160	6.00	8.52	C1	C2
1MA124-6R8MF_	6.80	±20%	0.0210	0.0250	5.20	6.52	C1	C2
1MA124-8R2MF_	8.20	±20%	0.0275	0.0290	4.67	5.98	C1	C2
1MA124-100MF_	10.0	±20%	0.0268	0.0300	3.90	5.72	C1	C2
1MA124-120MF_	12.0	±20%	0.0369	0.0380	3.65	5.02	C1	C2
1MA124-150MF_	15.0	±20%	0.0486	0.0500	3.40	4.58	C1	C2
1MA124-180MF_	18.0	±20%	0.0510	0.0567	3.19	4.28	C1	C2
1MA124-220MF_	22.0	±20%	0.0603	0.0670	3.14	3.76	C1	C2
1MA124-270MF_	27.0	±20%	0.0675	0.0750	2.86	3.46	C1	C2
1MA124-330MF_	33.0	±20%	0.0817	0.0908	2.60	3.14	C1	C2
1MA124-390MF_	39.0	±20%	0.0952	0.1058	2.39	2.72	C1	C2
1MA124-470MF_	47.0	±20%	0.121	0.134	2.10	2.66	C1	C2
1MA124-560MF_	56.0	±20%	0.134	0.149	2.01	2.34	C1	C2
1MA124-680MF_	68.0	±20%	0.167	0.186	1.80	2.10	C1	C2
1MA124-820MF_	82.0	±20%	0.189	0.210	1.72	1.80	C1	C2

	Inductance[2]		DCR[3]				Drawing Fig.	
Part Number[1]	μH	Tolerance	Typ.(Ω)	Max.(Ω)	Irms[4](A)	Isat[5] (A)	Metal Base	Plastic Base
1MA124-101MF_	100	±20%	0.217	0.241	1.65	1.64	C1	C2
1MA124-121MF_	120	±20%	0.287	0.319	1.42	1.62	C1	C2
1MA124-151MF_	150	±20%	0.327	0.363	1.30	1.36	C1	C2
1MA124-181MF_	180	±20%	0.380	0.422	1.21	1.34	C1	C2
1MA124-221MF_	220	±20%	0.488	0.543	1.00	1.18	C1	C2
1MA124-271MF_	270	±20%	0.560	0.622	0.95	1.04	C1	C2
1MA124-331MF_	330	±20%	0.731	0.813	0.87	1.00	C1	C2
1MA124-391MF_	390	±20%	0.814	0.904	0.79	0.91	C1	C2
1MA124-471MF_	470	±20%	0.935	1.039	0.76	0.81	C1	C2
1MA124-561MF_	560	±20%	1.119	1.326	0.67	0.76	C1	C2
1MA124-681MF_	680	±20%	1.370	1.523	0.62	0.68	C1	C2
1MA124-821MF_	820	±20%	1.590	1.767	0.58	0.61	C1	C2
1MA124-102MF_	1000	±20%	2.090	2.323	0.50	0.56	C1	C2
1MA125-R47NF_	0.47	±30%	0.0018	0.0027	17.60	25.00	D1	D2
1MA125-1R0NF_	1.00	±30%	0.0024	0.0036	13.18	16.50	D1	D2
1MA125-1R5NF_	1.50	±30%	0.0040	0.0060	10.21	14.40	D1	D2
1MA125-2R2NF_	2.20	±30%	0.0045	0.0063	9.96	11.70	D1	D2
1MA125-3R3NF_	3.30	±30%	0.0063	0.0076	9.09	10.40	D1	D2
1MA125-4R7MF_	4.70	±20%	0.0105	0.0126	7.04	8.72	D1	D2
1MA125-5R6MF_	5.60	±20%	0.0115	0.0150	6.45	7.26	D1	D2
1MA125-6R8MF_	6.80	±20%	0.0123	0.0180	5.59	7.12	D1	D2
1MA125-8R2MF_	8.20	±20%	0.0170	0.0210	5.54	6.75	D1	D2
1MA125-100MF_	10.0	±20%	0.0180	0.0250	5.11	5.87	D1	D2
1MA125-120MF_	12.0	±20%	0.0230	0.0270	4.81	4.92	D1	D2
1MA125-150MF_	15.0	±20%	0.0250	0.0300	4.56	4.56	D1	D2
1MA125-180MF_	18.0	±20%	0.0290	0.0340	4.29	4.35	D1	D2
1MA125-220MF_	22.0	±20%	0.0310	0.0360	4.17	3.86	D1	D2
1MA125-270MF_	27.0	±20%	0.0400	0.0510	3.50	3.34	D1	D2
1MA125-330MF_	33.0	±20%	0.0540	0.0570	3.31	3.06	D1	D2
1MA125-390MF_	39.0	±20%	0.0580	0.0645	3.11	2.93	D1	D2
1MA125-470MF_	47.0	±20%	0.0750	0.0820	2.71	2.53	D1	D2
1MA125-560MF_	56.0	±20%	0.0850	0.0890	2.65	2.39	D1	D2
1MA125-680MF_	68.0	±20%	0.0945	0.1050	2.44	2.30	D1	D2
1MA125-820MF_	82.0	±20%	0.120	0.129	2.20	2.05	D1	D2
1MA125-101MF_	100	±20%	0.139	0.146	2.07	1.79	D1	D2
1MA125-121MF_	120	±20%	0.159	0.170	1.92	1.62	D1	D2
1MA125-151MF_	150	±20%	0.185	0.230	1.65	1.50	D1	D2
1MA125-181MF_	180	±20%	0.234	0.246	1.59	1.33	D1	D2
1MA125-221MF_	220	±20%	0.306	0.335	1.37	1.22	D1	D2
1MA125-271MF_	270	±20%	0.355	0.400	1.25	1.05	D1	D2
1MA125-331MF_	330	±20%	0.482	0.494	1.12	0.95	D1	D2
1MA125-391MF_	390	±20%	0.515	0.533	1.08	0.88	D1	D2
1MA125-471MF_	470	±20%	0.705	0.733	0.92	0.83	D1	D2
1MA125-561MF_	560	±20%	0.776	0.800	0.88	0.77	D1	D2

	Inductance[2]		DCR[3]				Drawing Fig.	
Part Number[1]	μH	Tolerance	Typ.(Ω)	Max.(Ω)	Irms[4](A)	Isat[5] (A)	Metal Base	Plastic Base
1MA125-681MF_	680	±20%	0.887	0.910	0.83	0.70	D1	D2
1MA125-821MF_	820	±20%	1.130	1.152	0.74	0.63	D1	D2
1MA125-102MF_	1000	±20%	1.295	1.335	0.68	0.57	D1	D2
1MA127-R47NF_	0.47	±30%	0.00195	0.00300	17.90	26.40	E1	E2
1MA127-1R0NF_	1.00	±30%	0.00261	0.00450	15.50	18.60	E1	E2
1MA127-1R5NF_	1.50	±30%	0.00341	0.00600	13.50	15.00	E1	E2
1MA127-2R2NF_	2.20	±30%	0.00400	0.00680	12.70	14.30	E1	E2
1MA127-3R3NF_	3.30	±30%	0.00680	0.00816	10.40	12.50	E1	E2
1MA127-3R9NF_	3.90	±30%	0.00850	0.01020	8.77	10.56	E1	E2
1MA127-4R7MF_	4.70	±20%	0.00940	0.01128	8.25	10.23	E1	E2
1MA127-5R6MF_	5.60	±20%	0.0108	0.0130	7.47	9.46	E1	E2
1MA127-6R8MF_	6.80	±20%	0.0120	0.0144	7.34	8.80	E1	E2
1MA127-8R2MF_	8.20	±20%	0.0160	0.0192	6.32	8.25	E1	E2
1MA127-100MF_	10.0	±20%	0.0172	0.0200	6.04	7.26	E1	E2
1MA127-120MF_	12.0	±20%	0.0218	0.0240	5.37	6.50	E1	E2
1MA127-150MF_	15.0	±20%	0.0240	0.0270	5.04	6.00	E1	E2
1MA127-180MF_	18.0	±20%	0.0308	0.0370	4.52	5.40	E1	E2
1MA127-220MF_	22.0	±20%	0.0330	0.0396	4.21	5.00	E1	E2
1MA127-270MF_	27.0	±20%	0.0350	0.0420	3.74	3.80	E1	E2
1MA127-330MF_	33.0	±20%	0.0470	0.0564	3.58	3.70	E1	E2
1MA127-390MF_	39.0	±20%	0.0530	0.0636	3.35	3.60	E1	E2
1MA127-470MF_	47.0	±20%	0.0719	0.0863	2.96	3.45	E1	E2
1MA127-560MF_	56.0	±20%	0.0802	0.0962	2.80	2.90	E1	E2
1MA127-680MF_	68.0	±20%	0.0900	0.1080	2.62	2.70	E1	E2
1MA127-820MF_	82.0	±20%	0.120	0.144	2.23	2.50	E1	E2
1MA127-101MF_	100	±20%	0.135	0.162	2.16	2.40	E1	E2
1MA127-121MF_	120	±20%	0.182	0.218	1.86	2.00	E1	E2
1MA127-151MF_	150	±20%	0.216	0.259	1.71	1.80	E1	E2
1MA127-181MF_	180	±20%	0.229	0.275	1.66	1.70	E1	E2
1MA127-221MF_	220	±20%	0.323	0.388	1.39	1.50	E1	E2
1MA127-271MF_	270	±20%	0.415	0.498	1.23	1.30	E1	E2
1MA127-331MF_	330	±20%	0.487	0.584	1.14	1.20	E1	E2
1MA127-391MF_	390	±20%	0.533	0.640	1.09	1.10	E1	E2
1MA127-471MF_	470	±20%	0.707	0.848	0.94	1.00	E1	E2
1MA127-561MF_	560	±20%	0.777	0.932	0.90	0.90	E1	E2
1MA127-681MF_	680	±20%	1.045	1.254	0.78	0.80	E1	E2
1MA127-821MF_	820	±20%	1.166	1.399	0.73	0.80	E1	E2
1MA127-102MF_	1000	±20%	1.334	1.601	0.69	0.70	E1	E2
1MA129-R47NF_	0.47	±30%	0.0022	0.0033	17.50	27.50	F1	F2
1MA129-1R0NF_	1.00	±30%	0.0034	0.0051	14.00	25.00	F1	F2
1MA129-2R2NF_	2.20	±30%	0.0050	0.0060	11.50	20.00	F1	F2
1MA129-3R5NF_	3.50	±30%	0.0060	0.0090	11.00	16.50	F1	F2
1MA129-4R7MF_	4.70	±20%	0.0070	0.0110	9.30	13.00	F1	F2
1MA129-6R8MF_	6.80	±20%	0.0090	0.0140	8.40	12.80	F1	F2

	Inductance[2]		DCR[3]				Drawing Fig.	
Part Number[1]	μH	Tolerance	Typ.(Ω)	Max.(Ω)	Irms[4](A)	Isat[5] (A)	Metal Base	Plastic Base
1MA129-7R5MF_	7.50	±20%	0.0110	0.0150	7.80	10.60	F1	F2
1MA129-100MF_	10.0	±20%	0.0130	0.0180	7.60	10.50	F1	F2
1MA129-120MF_	12.0	±20%	0.0150	0.0190	7.10	8.80	F1	F2
1MA129-150MF_	15.0	±20%	0.0210	0.0260	6.00	8.00	F1	F2
1MA129-220MF_	22.0	±20%	0.0230	0.0280	5.30	6.50	F1	F2
1MA129-270MF_	27.0	±20%	0.0300	0.0400	4.60	5.80	F1	F2
1MA129-330MF_	33.0	±20%	0.0370	0.0450	4.20	5.50	F1	F2
1MA129-390MF_	39.0	±20%	0.0440	0.0560	4.10	5.00	F1	F2
1MA129-470MF_	47.0	±20%	0.0460	0.0630	3.80	4.50	F1	F2
1MA129-560MF_	56.0	±20%	0.0540	0.0680	3.40	3.70	F1	F2
1MA129-680MF_	68.0	±20%	0.0690	0.0890	3.20	3.60	F1	F2
1MA129-820MF_	82.0	±20%	0.0905	0.1050	2.70	3.40	F1	F2
1MA129-101MF_	100	±20%	0.100	0.110	2.50	3.10	F1	F2
1MA129-121MF_	120	±20%	0.130	0.156	2.30	2.60	F1	F2
1MA129-151MF_	150	±20%	0.139	0.174	2.30	2.40	F1	F2
1MA129-181MF_	180	±20%	0.153	0.191	2.20	2.30	F1	F2
1MA129-221MF_	220	±20%	0.193	0.300	1.90	2.20	F1	F2
1MA129-271MF_	270	±20%	0.248	0.330	1.70	2.10	F1	F2
1MA129-331MF_	330	±20%	0.363	0.430	1.50	1.70	F1	F2
1MA129-471MF_	470	±20%	0.437	0.560	1.40	1.50	F1	F2
1MA129-561MF_	560	±20%	0.520	0.650	1.20	1.40	F1	F2
1MA129-681MF_	680	±20%	0.660	0.825	1.10	1.30	F1	F2
1MA129-821MF_	820	±20%	0.815	1.000	1.00	1.10	F1	F2
1MA129-102MF_	1000	±20%	0.930	1.200	0.88	1.00	F1	F2
1MA129-122MF_	1200	±20%	1.110	1.330	0.80	0.81	F1	F2
1MA129-152MF_	1500	±20%	1.660	1.990	0.66	0.71	F1	F2
1MA129-182MF_	1800	±20%	1.820	2.180	0.63	0.60	F1	F2
1MA129-222MF_	2200	±20%	2.150	2.580	0.58	0.54	F1	F2

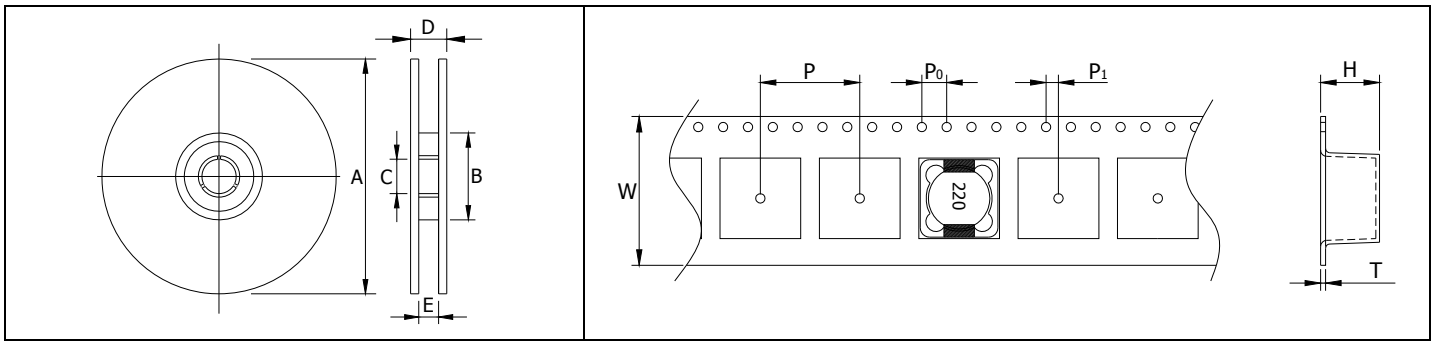
1. Available for both Plastic Base and Metal Base, when ordering please specify the base type codes: e.g. 1MA127-1R0NFP
   P= Plastic Base
   M= Metal Base
2. Inductance measured @ 100KHz, 0.3V at 25°C temperature.
3. DCR measured @ 25°C.
4. Irms: DC current for an approximate 40°C rise from 20°C ambient temperature.
5. Isat: DC current for approximate 10% roll off at 25°C.
6. Specifications subject to change without notice please check our website for latest information.

-Extended dimension 159 size (15.5mmx15.5mmx11.0mm)

Inductance[1]			DCR[2]			Isat[4](A)	
Part Number	μH	Tolerance	Typ.(Ω)	Max.(Ω)	Irms[3](A)	10% drop	30% drop
1MA159-6R8MFM	6.80	±20%	0.0083	0.0100	9.20	15.0	19.5
1MA159-8R2MFM	8.20	±20%	0.0091	0.0109	8.78	13.5	17.5
1MA159-100MFM	10.0	±20%	0.0114	0.0137	7.85	12.6	16.0
1MA159-120MFM	12.0	±20%	0.0130	0.0156	7.35	10.5	13.5
1MA159-150MFM	15.0	±20%	0.0170	0.0204	6.42	9.00	11.5
1MA159-220MFM	22.0	±20%	0.0210	0.0252	5.78	7.50	9.60
1MA159-330MFM	33.0	±20%	0.0323	0.0388	4.66	6.00	7.65
1MA159-470MFM	47.0	±20%	0.0403	0.0484	4.17	5.20	6.60
1MA159-680MFM	68.0	±20%	0.0625	0.0774	3.35	4.70	5.80
1MA159-820MFM	82.0	±20%	0.0795	0.0954	2.90	4.20	5.20
1MA159-101MFM	100	±20%	0.0895	0.107	2.80	3.80	4.90
1MA159-121MFM	120	±20%	0.103	0.124	2.61	3.20	4.00
1MA159-151MFM	150	±20%	0.115	0.138	2.47	3.00	3.60
1MA159-181MFM	180	±20%	0.150	0.180	2.25	2.60	3.30
1MA159-221MFM	220	±20%	0.170	0.204	2.03	2.30	3.00
1MA159-331MFM	330	±20%	0.260	0.312	1.64	1.80	2.40
1MA159-471MFM	470	±20%	0.400	0.480	1.45	1.60	2.20
1MA159-681MFM	680	±20%	0.540	0.648	1.15	1.35	1.70
1MA159-821MFM	820	±20%	0.700	0.840	1.00	1.25	1.55
1MA159-102MFM	1000	±20%	0.800	0.960	0.94	1.10	1.35
1MA159-122MFM	1200	±20%	1.20	1.44	0.75	1.00	1.20
1MA159-152MFM	1500	±20%	1.35	1.62	0.71	0.85	1.05
1MA159-182MFM	1800	±20%	1.50	1.80	0.68	0.80	1.00
1MA159-222MFM	2200	±20%	1.70	2.04	0.64	0.65	0.95

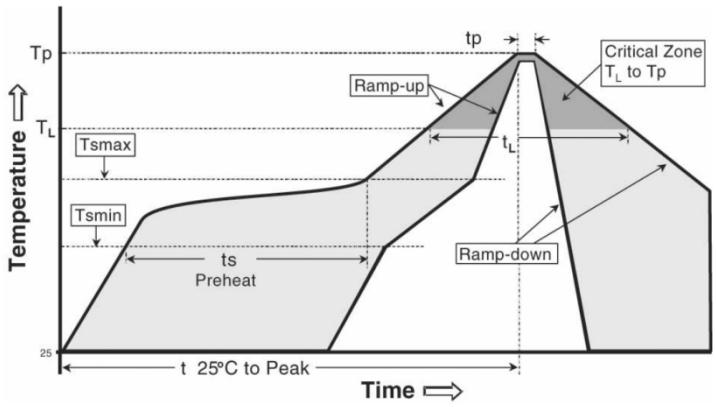
1. Inductance measured @ 100KHz, 0.3V at 25°C temperature.
2. DCR measured @ 25°C.
3. Irms: DC current for an approximate 40°C rise from 20°C ambient temperature.
4. Isat: DC current at which the inductance drops the specified amount from its value without current.
5. Specifications subject to change without notice please check our website for latest information.

E TAPE AND REEL SPECIFICATIONS



Case Size	Parts per Reel	Reel Dimensions(REF)					Tape Dimensions(REF)					
		A	B	C	D	E	W	P	P_0	P1	H	T
1MA73	1000	330	100	13	22.5	16.5	16	12	4	2	3.8	0.4
1MA74	1000	330	100	13	22.5	16.5	16	12	4	2	4.7	0.4
1MA124	500	330	100	13	30	24.5	24	16	4	2	4.9	0.45
1MA125	500	330	100	13	30	24.5	24	16	4	2	6.2	0.45
1MA127	500	330	100	13	30	24.5	24	16	4	2	8.2	0.45
1MA129	350	330	100	13	30	24.5	24	16	4	2	10.2	0.45
1MA159	300	330	100	13	30	24.5	24	20	4	2	10.2	0.45

F RECOMMENDED SOLDER REFLOW PROFILE



Profile Feature	Recommended Conditions
Average ramp-up rate (Tsmax to Tp)	3˚C/second max.
Preheat Temperature Min (Ts_{min}) Temperature Max (Ts_{max}) Time (Ts_{min} to Ts_{max})(ts)	 100˚C 150˚C 60-180 seconds
Time maintained above: Temperature (T_L) Time (t_L)	 217˚C 60-150 seconds
Peak Temperature (Tp)	See Table2
Time within 5˚C of actual Peak Temperature $(tp)^2$	20-40 seconds
Ramp-down Rate	6˚C/second max.
Time 25˚C to Peak Temperature	8 minutes max

Table 1

Package Thickness	Volume mm^3 <350	Volume mm^3 350 - 2000	Volume mm^3 >2000
< 1.6mm	260˚C	260˚C	260˚C
1.6mm - 2.5mm	260˚C	250˚C	245˚C
>2.5mm	250˚C	245˚C	245˚C

Table 2

1. The above profiles are based on IPC/JEDEC J-STD-020C.
2. Exceeding these conditions may cause lowered product reliability.