

Part Number	A B		С	E1	E2	E3	F	G
MP005770	7.8	±0.4	6 ±0.5	4.7 ±0.5	4.6 ±0.5	6.5 ±0.5	Ø0.8 ±0.1	
MP005772	8.5 (Max.)		6.3 (Max.)	4.8 ±0.5	4.7 ±0.5	6.7 ±0.5	Ø0.7 ±0.1	3.5 ±0.5
MP005773	8 ±	0.3	6 ±0.5	4.7 ±0.5	4.6 ±0.5	6.6 ±0.5	Ø0.7 ±0.1	

### **Electrical Characteristics**

Part Number	L (µH) ± Tol	DCR (mΩ)	Isat (A)	Irms (A)	Op. Temp
MP005770	1 ±15%	3 ±7%	23	18	-55°C to +130°C
MP005772	1 ±20%	4.3 ±8%	22	18	-25°C to 125°C.
MP005773	1.5 ±15%	5.05 ±7%	18	13	-55°C to +130°C

#### Notes:

1. L is measured at: 100KHz, 1.0V @ 25°C.

2. Isat: DC current that causes inductance to drop by approximately 20% from L

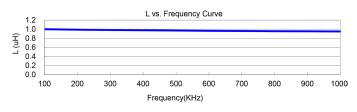
3. Irms: DC current that causes an approximate temperature rise ( $\Delta T$ ) of 40°C.

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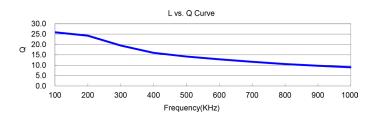


### **Electrie Characteristics Curve.**

#### MP005770



Frequency(KHz)	100	200	300	400	500	600	700	800	900	1000
L (uH)	1	0.99	0.98	0.98	0.97	0.96	0.96	0.96	0.95	0.95



Frequency(KHz)	100	200	300	400	500	600	700	800	900	1000
Q	25.87	24.26	19.51	15.98	14.20	12.86	11.65	10.57	9.75	9.02

20

41.5

28

0.84

25

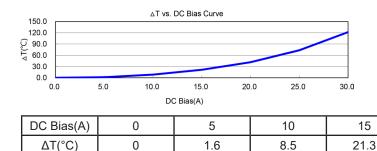
73.4

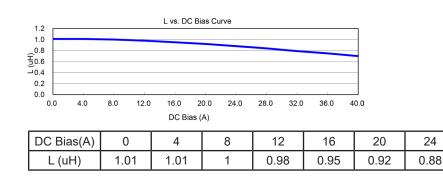
32

0.79

30

121.8





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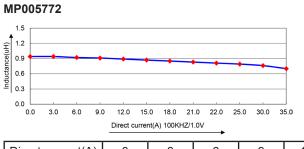
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36

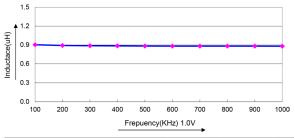
0.75

40

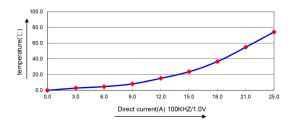
0.7



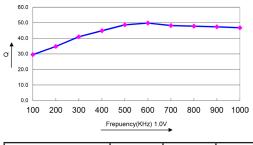
Direct current(A)	0	3	6	9	12	15	18	21	22	25	30	35
Inductance(uH)	0.94	0.94	0.92	0.91	0.89	0.87	0.85	0.83	0.81	0.79	0.76	0.7



Frepuency(KHz)	100	200	300	400	500	600	700	800	900	1000
Inductance(uH)	0.903	0.892	0.888	0.885	0.883	0.882	0.882	0.881	0.881	0.88



Direct current(A)	0.0	3	6	9	12	15	18	21	25
temperature(°C)	0.0	2.8	4.7	8.2	15.3	23.7	36.5	54.8	74.2



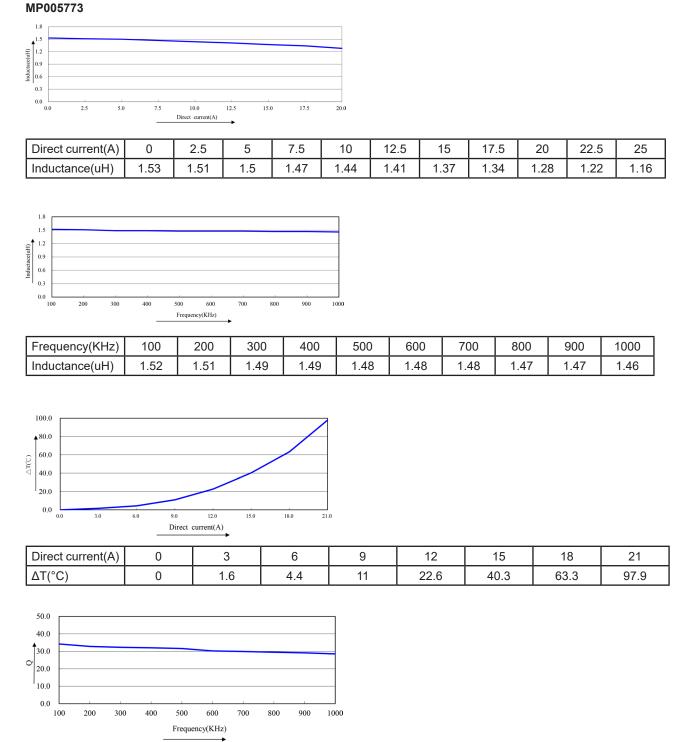
Frepuency(KHz)	100	200	300	400	500	600	700	800	900	1000
Quality Factor	29.5	34.8	41	44.9	48.7	49.8	48.2	47.8	47.4	46.8

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Unshielded Power Inductors - Radial Leaded Multicomp

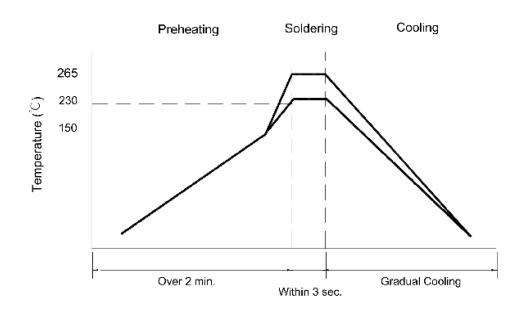


Frequency(KHz)	100	200	300	400	500	600	700	800	900	1000
Q	34.2	32.8	32.3	32	31.6	30.2	29.9	29.5	29.1	28.5

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### **Recommended Soldering Technologies**

Wave Soldering Profile



#### Note:

The reflow profile in the above table is only for qualification and is not meant to specify board assembly profiles. Actual board assembly profiles must be based on the customer's specific board design, solder paste and process, and should not exceed the parameters as the Reflow profile shows.

#### **Part Number Table**

Description	Part Number
Power Inductor, Unshielded, 1µH, 15%, Radial Leaded	MP005770
Power Inductor, Unshielded, 1µH, 20%, Radial Leaded	MP005772
Power Inductor, Unshielded, 1.5µH, 15%, Radial Leaded	MP005773

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