

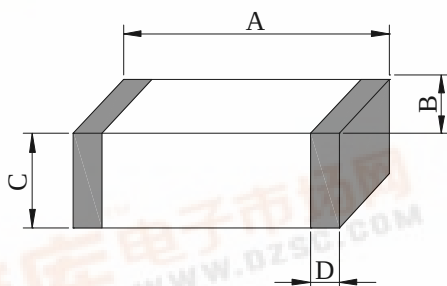
SPECIFICATION FOR APPROVAL

REF :

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PROD. NAME	MULTILAYER CHIP INDUCTOR	ABC'S DWG NO.	MH1005□□□□2□-□□□
		ABC'S ITEM NO.	

I . CONFIGURATION & DIMENSIONS :



A :	1.00±0.10	m/m
B :	0.50±0.10	m/m
C :	0.50±0.10	m/m
D :	0.23±0.10	m/m

II . SCHEMATIC DIAGRAM :



III . FEATURES :

- a . Monolithic structure ensuring high performance and reliability.
- b . High frequency applications up to 6GHz.
- c . Terminal : Ag/Cu/Ni/Sn
- d . Remark : Products comply with RoHS' requirements

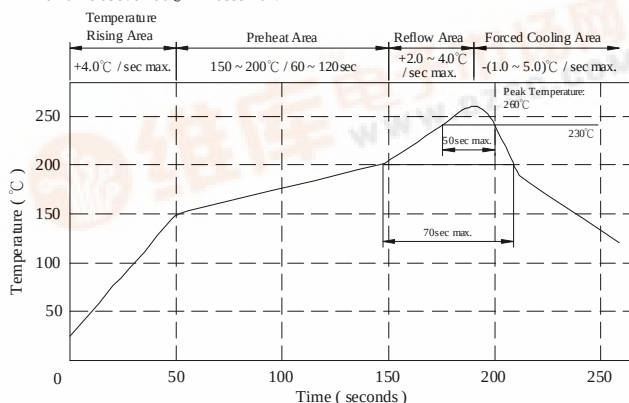
IV . APPLICATIONS :

- a . RF modules for telecommunication systems including GSM, PCS,DECT,WLAN,Bluetooth,etc.

V . GENERAL SPECIFICATION :

- a . Storage temp. : -55°C --- +125°C
- b . Operating temp. : -55°C --- +125°C
- c . Solderability : Preheat 150°C . 60 sec
Solder : H63A
Solder temp. : 230±5°C
Flux : Rosin
Dip time : 4±1 sec

Peak Temp : 260°C max.
Max time above 230°C : 50sec max.
Max time above 200°C : 70sec max.



AR-001A



千如電子集團
ABC ELECTRONICS GROUP.



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VI . ELECTRICAL CHARACTERISITCS :

DWG No.	Inductance (nH)	Q min	L / Q Test Freq. (MHz)	SRF (GHz) min	RDC (Ω) max	IDC (mA) max
MH10051N0D2□-□□□	1.0 ± 0.3	8	100	10.00	0.08	300
MH10051N2D2□-□□□	1.2 ± 0.3	8	100	10.00	0.09	300
MH10051N5D2□-□□□	1.5 ± 0.3	8	100	6.00	0.10	300
MH10051N8D2□-□□□	1.8 ± 0.3	8	100	6.00	0.12	300
MH10052N0D2□-□□□	2.0 ± 0.3	8	100	6.00	0.12	300
MH10052N2D2□-□□□	2.2 ± 0.3	8	100	6.00	0.13	300
MH10052N4D2□-□□□	2.4 ± 0.3	8	100	6.00	0.13	300
MH10052N7D2□-□□□	2.7 ± 0.3	8	100	6.00	0.13	300
MH10053N0D2□-□□□	3.0 ± 0.3	8	100	6.00	0.16	300
MH10053N3D2□-□□□	3.3 ± 0.3	8	100	6.00	0.16	300
MH10053N6D2□-□□□	3.6 ± 0.3	8	100	5.00	0.20	300
MH10053N9D2□-□□□	3.9 ± 0.3	8	100	4.00	0.21	300
MH10054N3D2□-□□□	4.3 ± 0.3	8	100	4.00	0.21	300
MH10054N7D2□-□□□	4.7 ± 0.3	8	100	4.00	0.21	300
MH10055N1D2□-□□□	5.1 ± 0.3	8	100	4.00	0.21	300
MH10055N6D2□-□□□	5.6 ± 0.3	8	100	4.00	0.23	300
MH10056N2D2□-□□□	6.2 ± 0.3	8	100	3.90	0.25	300
MH10056N8J2□-□□□	6.8 ± 5%	8	100	3.90	0.25	300
MH10057N5J2□-□□□	7.5 ± 5%	8	100	3.70	0.25	300
MH10058N2J2□-□□□	8.2 ± 5%	8	100	3.60	0.28	300
MH10059N1J2□-□□□	9.1 ± 5%	8	100	3.40	0.30	300
MH100510NJ2□-□□□	10.0 ± 5%	8	100	3.20	0.31	300
MH100512NJ2□-□□□	12.0 ± 5%	8	100	2.70	0.40	300
MH100515NJ2□-□□□	15.0 ± 5%	8	100	2.30	0.46	300
MH100518NJ2□-□□□	18.0 ± 5%	8	100	2.10	0.55	300
MH100522NJ2□-□□□	22.0 ± 5%	8	100	1.90	0.60	300
MH100527NJ2□-□□□	27.0 ± 5%	8	100	1.60	0.70	300
MH100533NJ2□-□□□	33.0 ± 5%	8	100	1.30	0.80	200
MH100539NJ2□-□□□	39.0 ± 5%	8	100	1.20	0.90	200
MH100547NJ2□-□□□	47.0 ± 5%	8	100	1.00	1.00	200
MH100556NJ2□-□□□	56.0 ± 5%	8	100	0.75	1.00	200
MH100568NJ2□-□□□	68.0 ± 5%	8	100	0.75	1.20	180
MH100582NJ2□-□□□	82.0 ± 5%	8	100	0.60	1.30	150
MH1005R10J2□-□□□	100.0 ± 5%	8	100	0.60	1.50	150
MH1005R12J2□-□□□	120.0 ± 5%	8	100	0.60	1.60	150

1). □ : Packaging Information...☐A : Bulk ☐B : Taping Reel

2)."-□□□":Reference code



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NAME		ABC'S ITEM NO.					

(4) TYPE DIMENSIONS

Fig 1.

Technical drawing of a Multilayer Chip Inductor (MH1005) showing dimensions A, B, F, P, T, W, and Fig. The drawing includes a top view and a side view. Dimensions are given in mm with tolerances in parentheses.

Top View Dimensions:

- W $\pm$ 0.2 (0.008)
- F $\pm$ 0.05 (0.002)
- 1.75 $\pm$ 0.1 (0.069 $\pm$ 0.004)
- 4 $\pm$ 0.1 (0.157 $\pm$ 0.004)
- 2 $\pm$ 0.05 (0.079 $\pm$ 0.002)
- ϕ 1.55 $\pm$ 0.05 (0.061 $\pm$ 0.002)
- P $\pm$ 0.1 (0.004)
- A $\pm$ 0.1 (0.004)
- B $\pm$ 0.1 (0.004)

Side View Dimensions:

- T max.

Unit:m/m							
Type	A	B	F	P	T	W	Fig
MH1005	0.65	1.15	3.50	2.0	0.80	8.0	1

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VIII . L / Q VS. FREQ. CURVE :

The first graph shows Inductance (L) in nH and uH on the y-axis (0.5n to 1u) versus Frequency in MHz on a logarithmic x-axis (1 to 10k). Five curves are shown for values 56N, 33N, 18N, 10n, and 8N2. All curves show a sharp increase in inductance starting around 100 MHz, with the 56N curve reaching 1 uH at approximately 1000 MHz.

The second graph shows Quality Factor (Q) on the y-axis (5 to 100) versus Frequency in MHz on a logarithmic x-axis (1 to 10k). Four curves are shown for values 56N, 33N, 18N, and 8N2. The Q factor peaks between 100 MHz and 1000 MHz, with the 8N2 curve reaching a peak Q of approximately 80 around 1000 MHz.

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