

Features

- RoHS compliant
- Magnetic shield construction
- Handle transient current spikes without saturation
- Ultra low buzz noise due to composite construction
- Flat wire structure, ultra-low resistance
- Excellent temperature stability for inductance and saturation
- Operating temperature rang: -40℃ to +125℃

Applications

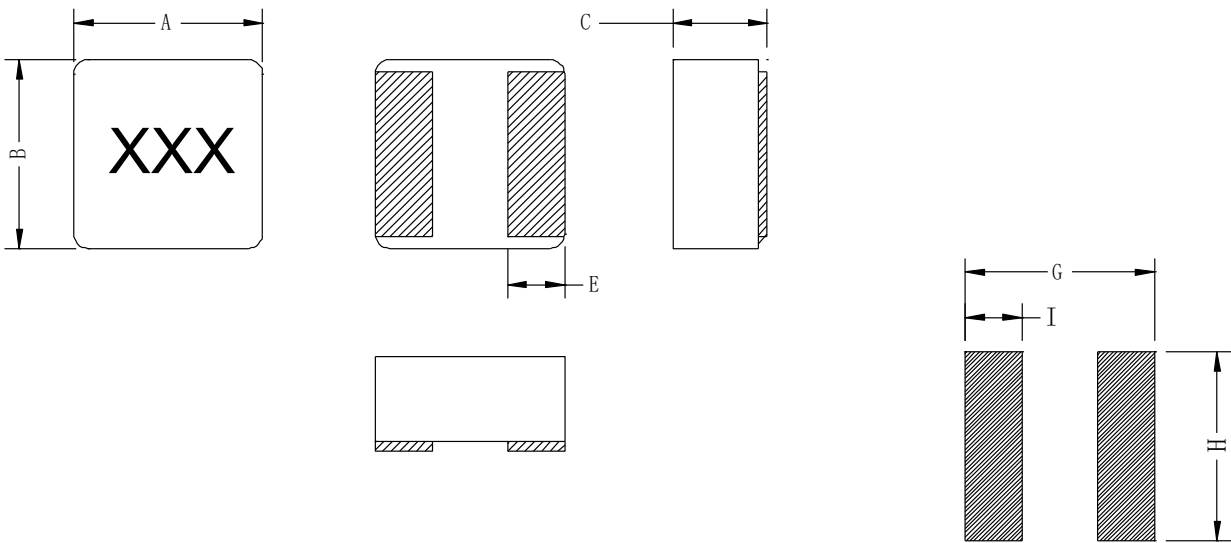
- Low Profile, high current power supplier
- PDA/notebook/desktop/server applications



Mechanical Dimensions

(Units:mm)

Product Exterior Schematic



Dimensions List

Series	A	B	E	C	G	I	H
MHT040020USG	4.10±0.20	4.10±0.20	1.40±0.20	2.10 Max.	4.10 Typ	1.50 Typ.	4.10 Typ.

Electrical Specifications

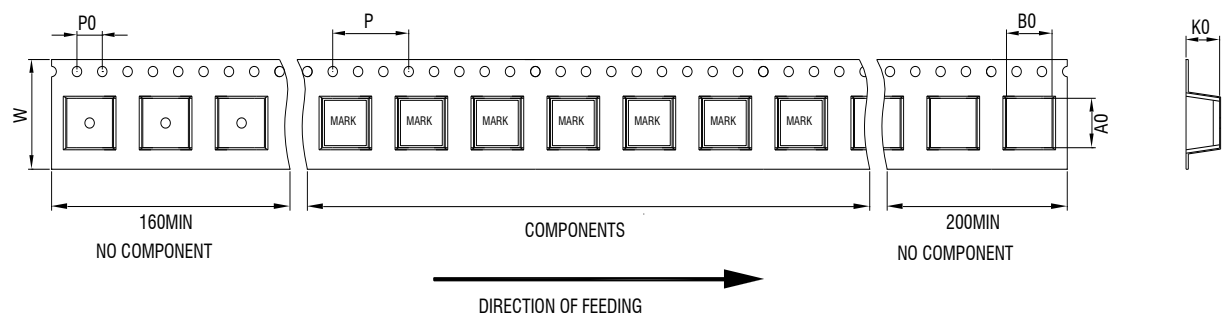
1. All of the electrical specifications are test at 25℃,inductance test at 1MHz1.0V.
2. Irms is the current that caused the product approximate 40℃ temperature rise from 25℃ ambient.
3. Isat is the DC current that caused inductance drop approximately 30% from it's value without current.
4. The part temperature(ambient + temp.rise) should not exceed 125℃ under worst case operating conditions. Circuit design,component placement,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature.Part temperature should be verified in the end application.
5. Due to product improvement, product specifications may be changed discontinuously without advance notice.Please contact with sales representatives or product engineers,and the Mentech product approval sheet shall be obtained before ordering.

MHT040020USG SERIES

Part Number	L (μH)	DCR (mΩ)		Irms (A)	Isat (A)
		Typ.	Max.		
MHT040020USGR10M-CND	0.10±20%	1.20	1.60	30.5	30.0
MHT040020USGR12M-CND	0.12±20%	1.30	1.70	30.5	29.0
MHT040020USGR15M-CND	0.15±20%	1.80	2.20	25.5	24.0
MHT040020USGR22M-CND	0.22±20%	2.00	2.70	19.0	19.0
MHT040020USGR33M-CND	0.33±20%	2.80	3.30	20.5	18.0
MHT040020USGR47M-CND	0.47±20%	4.10	4.90	16.0	14.0
MHT040020USGR56M-CND	0.56±20%	4.70	5.60	16.5	13.0
MHT040020USGR68M-CND	0.68±20%	5.80	6.40	13.0	12.0
MHT040020USGR82M-CND	0.82±20%	6.80	8.00	12.0	11.0
MHT040020USG1R0M-CND	1.00±20%	7.50	9.00	11.5	9.00
MHT040020USG1R2M-CND	1.20±20%	10.5	12.0	9.00	9.00
MHT040021USG1R0M-CND	1.00±20%	7.50	8.50	11.5	11.0

Packaging Specifications (Units:mm)

1. Carrier tape information



Series	A0	B0	K0	PO	P	W
MHT040020USG	4.40	4.40	1.30	4.00	8.00	12.0

2. Reel information



Series	A	A'	B	C	T
MHT040020USG	330	100	18.4Max.	13.0	2.00

3. Packaging specification

Series	Reel(Pcs)	N(Reels)	Carton(Pcs)
MHT040020USG	3,000	12	3,6000