

Features

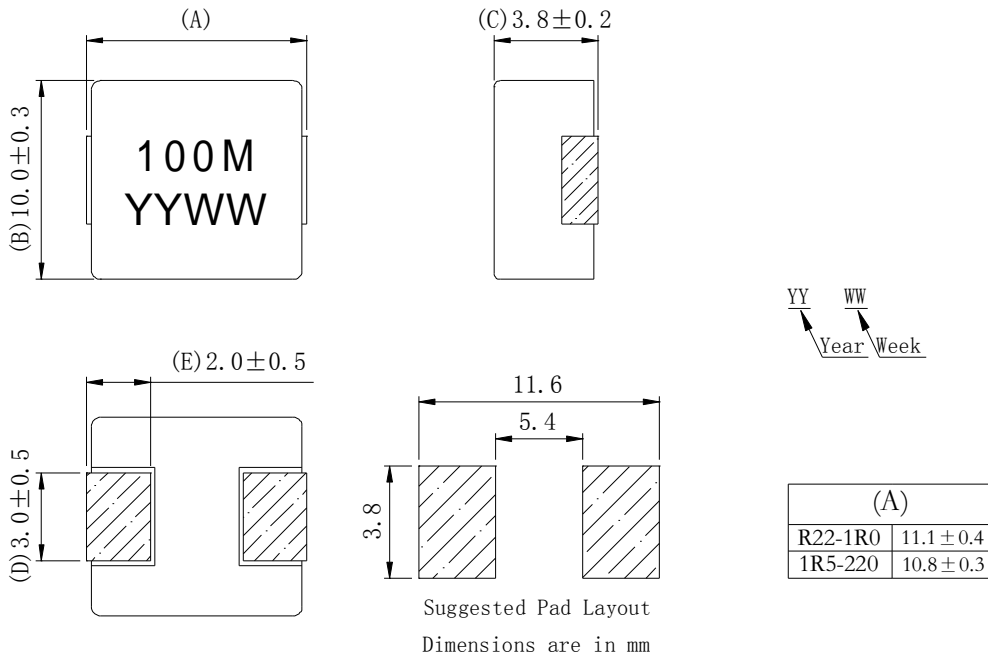
- Ⓢ RoHS compliant
- Ⓢ Magnetic shield construction
- Ⓢ CompositeMagnetic powder core
- Ⓢ Handle transient current spikes without saturation
- Ⓢ Ultra low buzz noise due to composite construction
- Ⓢ Moisture Sensitivity Level (MSL): 1
- Ⓢ AEC-Q200 Grade 0 qualified (- 55°C to +155°Cambient)
- Ⓢ Excellent temperature stability for inductance and saturation
- Ⓢ Operating temperature rang(Including temperature rise):
-55°C to +155°C

Applications

- Ⓢ Airbag
- Ⓢ LED lighting
- Ⓢ High current power supplies
- Ⓢ ADAS, Infotainment system



Mechanical Dimensions (Units:mm)



Electrical Specifications

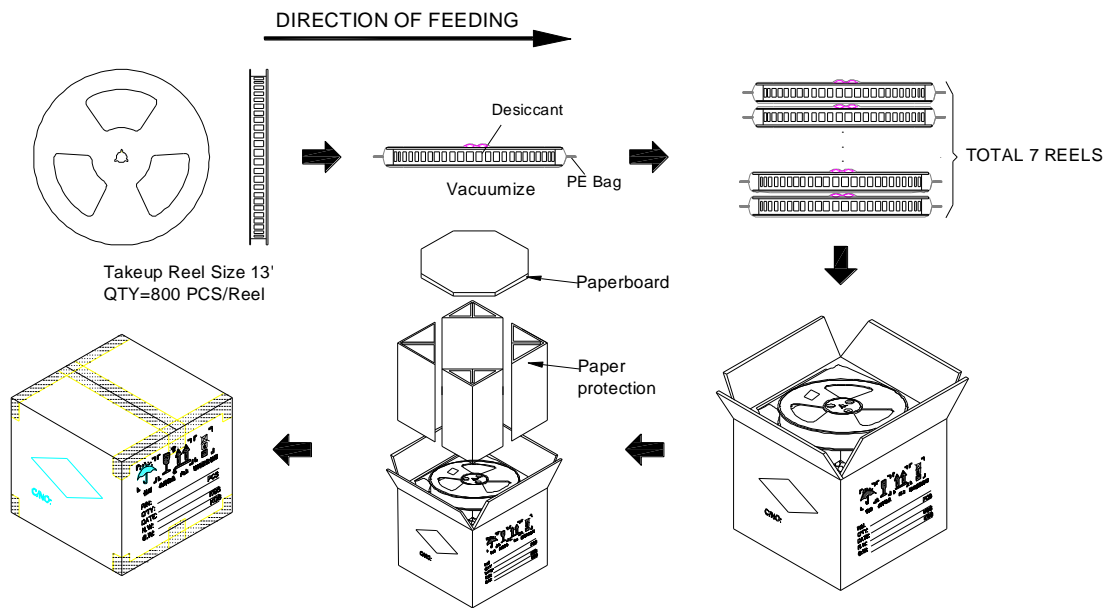
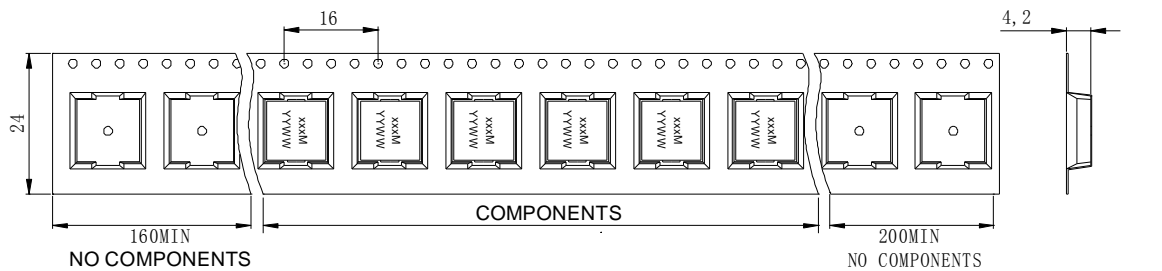
Part Number	L (μ H)	DCR (m Ω)		I _{rms} (A)	I _{sat} (A)
		Typ.	Max.		
MHAF1040SGR22M	0.22 ± 20%	0.60	0.72	35.0	60.0
MHAF1040SGR33M	0.33 ± 20%	0.76	0.91	30.0	45.0
MHAF1040SGR47M	0.47 ± 20%	1.20	1.44	27.0	40.0
MHAF1040SGR68M	0.68 ± 20%	1.80	2.16	25.0	32.0
MHAF1040SG1R0M	1.00 ± 20%	2.80	3.36	21.0	27.0
MHAF1040SG1R5M	1.50 ± 20%	4.50	5.40	17.0	24.0
MHAF1040SG2R2M	2.20 ± 20%	6.50	7.80	14.0	21.0
MHAF1040SG3R3M	3.30 ± 20%	9.70	11.6	10.0	16.0

MHAF1040SG4R7M	4.70±20%	15.5	18.6	8.00	13.0
MHAF1040SG6R8M	6.80±20%	25.5	30.6	7.00	10.0
MHAF1040SG100M	10.0±20%	39.5	45.0	6.00	9.00
MHAF1040SG100MA	10.0±20%	33.0	39.6	6.50	8.00
MHAF1040SG150M	15.0±20%	50.0	58.0	5.00	7.00
MHAF1040SG220M	22.0±20%	60.0	69.0	4.00	5.50

Notes:

1. All of the electrical specifications are test at 25°C, inductance test at 100KHz/0.25V.
2. I_{rms} is the current that caused a approximate 40°C temperature rise from 25°C ambient.
3. I_{sat} is the DC current at which inductance drop approximately 30% from its value without current.
4. The part temperature(ambient + temp.rise) should not exceed 155°C 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 specificationsMay be changed discontinuously without advance notice.
Please contact with sales representatives or product engineers, and theMentech product approval sheet shall be obtained before ordering.

Packaging Specifications (Units:mm)



800Pcs/Reel	7Reels/Carton
	5600Pcs/Carton