mentech

MOLDING SMD POWER INDUCTOR

MHAF1264SG SERIES

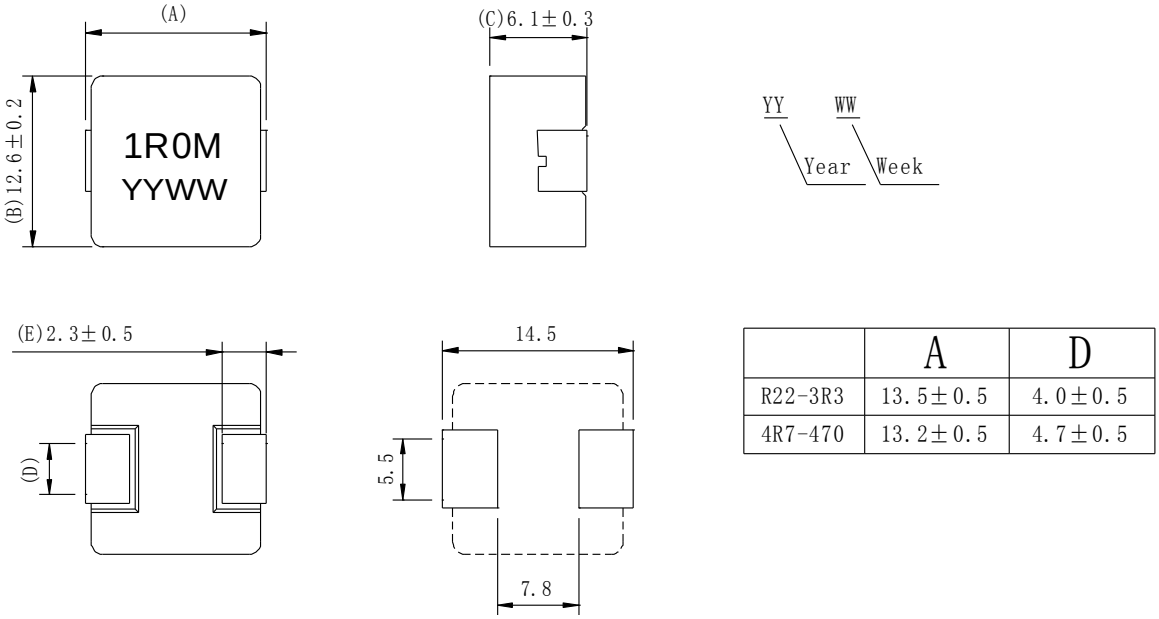
Features

- 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
- Excellent temperature stability for inductance and saturation
- AEC-Q200 Grade 0 qualified (－55℃ to +155℃ambient)
- Operating temperature rang(Including temperature rise)：
  -55℃ to +155℃

Applications

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

Mechanical Dimensions (Units:mm)



	A	D
R22-3R3	13.5±0.5	4.0±0.5
4R7-470	13.2±0.5	4.7±0.5

Electrical Spescifications

Part Number	L（μH）	DCR（mΩ）		Irms（A）	Isat（A）
		Typ.	Max.		
MHAF1264SGR10M	0.10±20%	0.33	0.40	85.0	120.0
MHA1264NSGR22M	0.22±20%	0.30	0.36	80.0	100.0
MHA1264NSGR33M	0.33±20%	0.38	0.46	70.0	85.0
MHA1264NSGR47M	0.47±20%	0.60	0.72	55.0	55.0
MHA1264NSGR68M	0.68±20%	1.00	1.20	42.0	52.0
MHA1264NSG1R0M	1.00±20%	1.65	1.98	34.0	36.0
MHA1264NSG1R0MA	1.00±20%	1.35	1.62	38.0	39.0
MHA1264NSG1R5M	1.50±20%	2.00	2.40	30.0	30.0
MHA1264NSG1R5MA	1.50±20%	1.90	2.28	30.0	34.0
MHA1264NSG2R2M	2.20±20%	2.8	3.36	26.0	29.0
MHA1264NSG3R3M	3.30±20%	4.0	4.80	21.0	26.0

MHA1264NSG4R7M	4.70±20%	6.2	7.44	17.0	23.0
MHA1264NSG5R6M	5.60±20%	7.80	9.36	15.0	21.0
MHA1264NSG6R8M	6.80±20%	9.80	11.76	14.0	19.0
MHA1264NSG8R2M	8.20±20%	11.5	13.80	13.0	17.0
MHA1264NSG100M	10.0±20%	16.00	19.20	11.0	15.5
MHA1264NSG120M	12.0±20%	17.50	21.00	10.5	14.0
MHA1264NSG150M	15.0±20%	22.50	27.00	9.00	12.0
MHA1264NSG220M	22.0±20%	33.00	39.60	7.50	9.00
MHA1264NSG330M	33.0±20%	43.50	52.20	6.00	7.00
MHA1264NSG470M	47.0±20%	69.00	82.80	5.00	6.00

Notes：

1.All of the electrical spesecifications are test at 25℃，inductance test at 100KHz/0.25V.

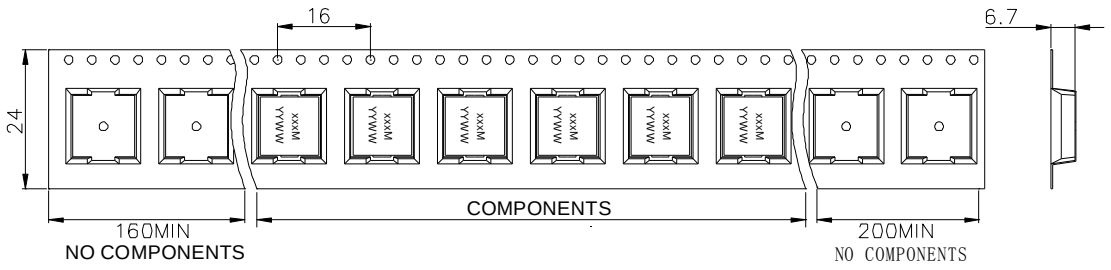
2. Irms is the current that caused a approximate 40℃ temperature rise from 25℃ ambient.

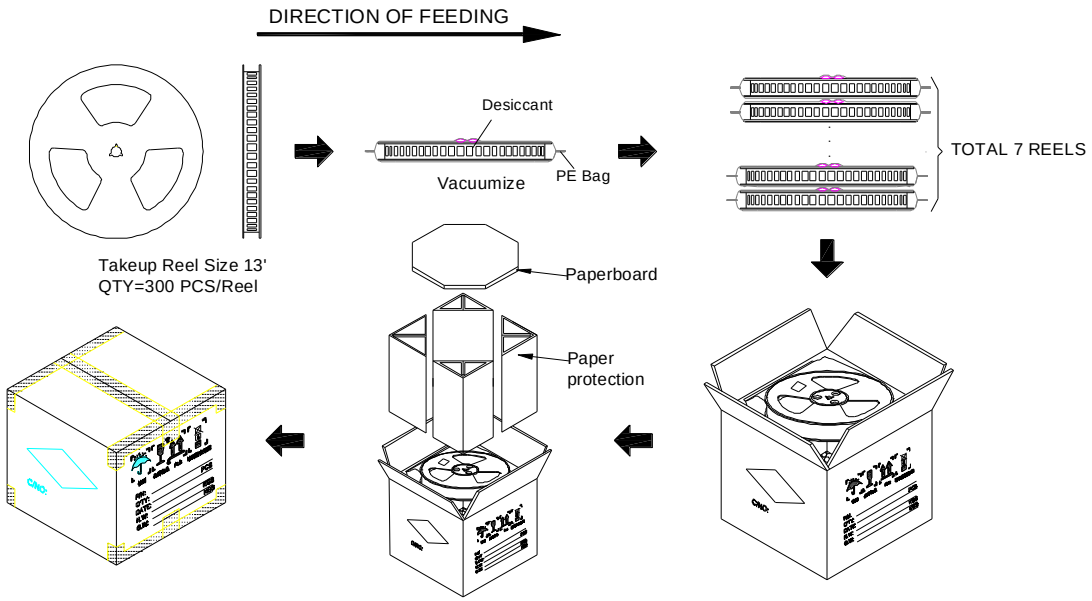
3. Isat is the DC current at which inductance drop approximately 30% from its value without current.

4. The part temperature(ambient + temp.rise) should not exceed 155℃ 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 appliction.

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 Spesecifications (Units:mm)





300Pcs/Reel	7Reels/Carton
	2100Pcs/Carton