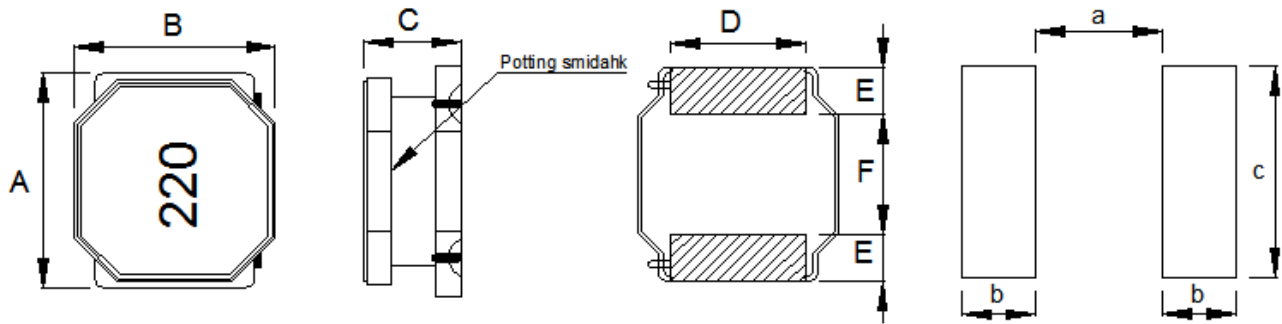


1. External Dimensions (Unit:m/m)



Type	A	B	C	D	E	F	a	b	c	Q'TY/Reel
NR3012	3.0±0.2	3.0±0.2	1.35Max	2.55Ref	0.9Ref	1.2Ref	1.1Ref	1.0Ref	3.4Ref	2000

2. Part Number Code

NR 3012 M 220 H
 A B C D E

A: Series Name Power Inductors
 B: Dimensions(mm) 3012: 3.0x3.0x1.35
 C: Tolerance M: ±20%
 D: Inductance 220=22uH
 E: Internal controls

3. Electrical Characteristics

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (mΩ)±30%	Heat Rating Current I _{rms} (A) (100KHz/1V)	Saturation Current I _{sat} (A) (100KHz/1V)
NR3012M220H	22.0	1MHz/1V	846.0	0.7	1.09

Notes:

- 1) All test data is referenced to 25°C ambient.
- 2) Operating temperature range -40°C to +125°C.
- 3) I_{rms} :DC current(A) that will cause an approximate ΔT of 40°C.
- 4) I_{sat} :DC current(A) that will cause I_o to drop approximately 35%.
- 5) The part temperature(ambient + temp rise)should not exceed 125°C under worst case operating conditions. circuit design,component placement, PWB trace size and thickness,airflow and other cooling provisions all affect the part temperature,part temperature should be verified in the end application.