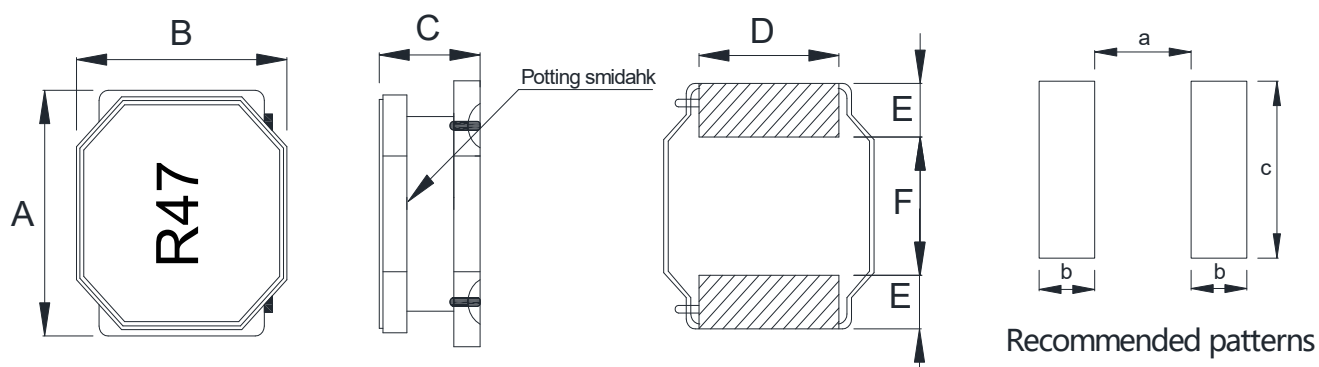


1. External Dimensions (Unit:mm)



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

2. Part Number Code

NR	30	12	M	R47	H
Series Name	Dimensions: L*W	Dimensions: H	Tolerance ±20%	Inductance	Materials

3. Electrical Characteristics

Part Number	Inductance (μH)	Test Conditions	DC Resistance mΩ Max	Heat Rating Current Irms(A)	Saturation Current Isat(A) (100KHz/1V)
NR3012MR47H	0.47	1MHz/1V	33	4	6.1

Notes:

- 1) All test data is referenced to 25°C ambient.
- 2) Absolute maximum voltage: DC 40V.
- 3) Operating temperature range -40°C to +125°C(Including self - temperature rise).
- 4) Irms :DC current(A) that will cause an approximate ΔT of 40°C.
- 5) Isat :DC current(A) that will cause I_o to drop approximat 35% .
- 6) The part temperature(ambient + temp rise)should not exceed 125°C under worst case operating conditions. Circuit design and other cooling provisions all affect the part temperature, part temperature should be verified in the end application.