SMD POWER INDUCTOR

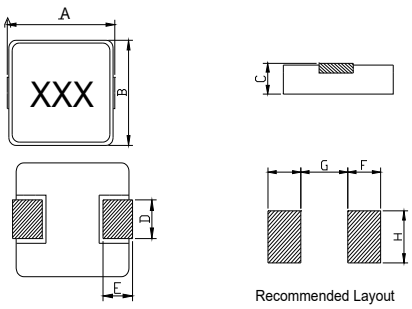
CND-tek
磁联达

All test data is referenced to 25℃ ambient.
Inductance measure condition at 100kHz, 1.0V.
Rated current:Isat or Irms, whichever is smaller.
Saturation current(Isat): the actual value of DC current when the inductance decrease approximately 30% of its initial value.
Temperature rise current(Irms):the actual value of DC current when the temperature rise is ΔT40℃(Ta=25℃) .
Absolute maximum voltage 30VDC.
Operating temperature range: -40℃ ～ +125℃ (Including self-heating).
Storage temperature range: -40℃~+125℃(on board)

ElectricalSpecifications@25ÁC

Part Number	Impedance (uH)	DC Resistance (mΩ) max.	Saturation current (Isat)		Temperature rise current (Irms)		
			(A)Max.	(A)Typ.	(A)Max.	(A)Typ.	
0420-R47-M H	0.47±20%	13.0	11.2	12.0	9.0	10.0	
0420-R56-M H	0.56±20%	15.0	10.0	10.8	7.3	8.2	
0420-1R0-M H	1.0±20%	26.0	7.0	8.0	5.0	5.6	
0420-1R5-M H	1.5±20%	41.0	5.5	6.1	4.1	4.7	
0420-2R2-M H	2.2±20%	58.0	5.0	5.5	3.6	4.0	
0420-3R3-M H	3.3±20%	82.0	3.6	4.0	2.9	3.3	
0420-4R7-M H	4.7±20%	121.0	3.2	3.6	2.4	2.8	
0420-6R8-M H	6.8±20%	177.0	2.5	3.6	1.8	2.2	
0420-100-M H	10.0±20%	280.0	2.0	2.3	1.0	1.3	

MECHANICAL

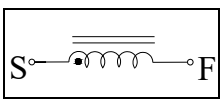


Recommended Layout

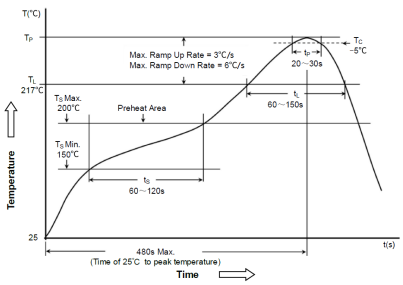
Electrode Coplanarity:0.1mm Max.

POSITION	A	B	C	D	E	F	G	H
DIMENSION	4.4±0.35	4.2±0.3	2.0Max.	1.5±0.2	1.2±0.3	1.7	1.5	2.0

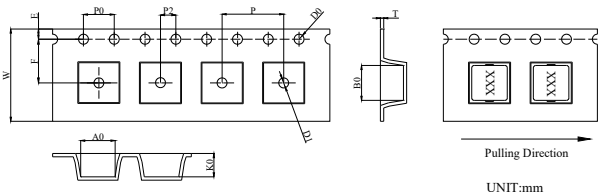
SCHEMATICS



IMPEDEDANCE FREQUENCY



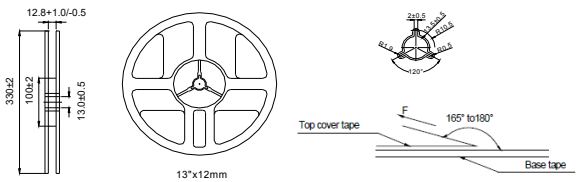
TAPING AND PACKING



UNIT:mm

ITEM	W	A0	B0	K0	P	P0	P2	E	F	D0
DIMENSIONS	12.0 +0.3 -0.3	4.6 +0.1 -0.1	5.3 +0.1 -0.1	2.1 +0.1 -0.1	8.0 +0.1 -0.1	4.0 +0.1 -0.1	2.0 +0.1 -0.1	1.75 +0.1 -0.1	5.5 +0.1 -0.1	1.5 +0.10 -0.00

Reel



Quantity (pcs) :
3000 PCS PER REEL
3 REELS PER CARTON
9000PCS PER CARTON

Dimensions in mm

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