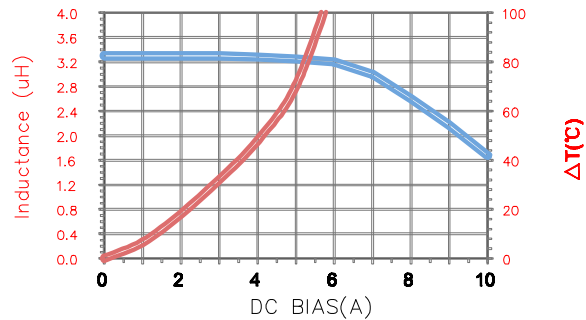
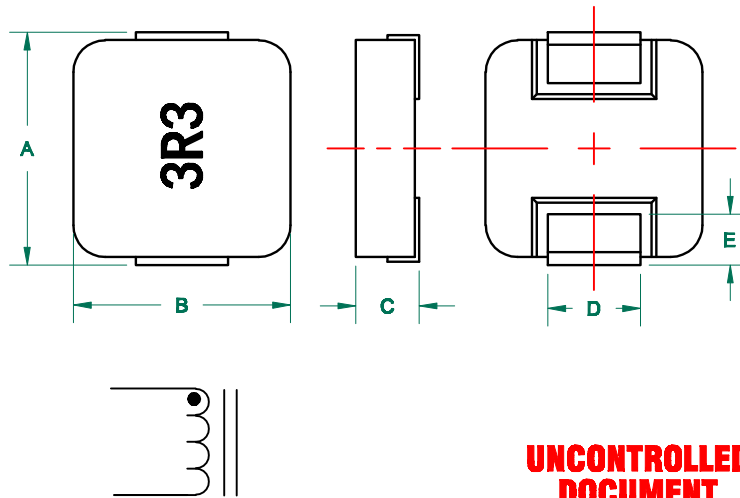
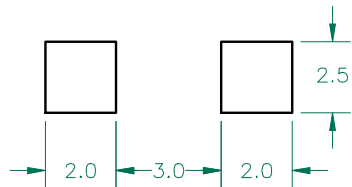


# MGV05023R3M-10

## PHYSICAL DIMENSIONS:

A	5.50	±	0.50
B	5.10	±	0.30
C	2.00	±	0.30
D	1.50	±	0.30
E	1.20	±	0.50

## LAND PATTERNS FOR REFLOW SOLDERING



## ELECTRICAL SPECIFICATION @ 25°C

	Min	Nom	Max
INDUCTANCE (uH) L @ 100 KHz/0.25V ± 20%	2.64	3.30	3.96
DCR (Ω)			0.0855

Saturation Current <sup>3</sup> Isat (A)	8.50
Temperature Rise Current Irms <sup>4</sup> (A)	3.30

**UNCONTROLLED  
DOCUMENT**



**RoHS**  
2002/95/EC

NOTES: UNLESS OTHERWISE SPECIFIED

- COMPONENTS SHOULD BE ADEQUATELY PREHEATED BEFORE SOLDERING.
- OPERATION TEMPERATURE RANGE:  
-40°C~+125°C (INCLUDING SELF-HEATING) .
- DEFINITION OF SATURATION CURRENT (ISAT): DC CURRENT AT WHICH THE INDUCTANCE DROPS ≤25% FROM ITS VALUE WITHOUT CURRENT (Ta=25±5°C).
- DEFINITION OF TEMPERATURE RISE CURRENT (IRMS): DC CURRENT THAT CAUSES THE TEMPERATURE RISE ( ΔT ≤40°C) FROM 25°C AMBIENT.

DIMENSIONS ARE IN mm.				This print is the property of Laird Tech. and is loaned in confidence subject to return upon request and with the understanding that no copies shall be made without the written consent of Laird Tech. All rights to design or invention are reserved.		<b>Laird TECHNOLOGIES</b>	
PROJECT/PART NUMBER:	REV	PART TYPE:	DRAWN BY:				
C	CHANGE NOTE 2.3.4	09/24/12	QIU	MGV05023R3M-10	C	POWER INDUCTOR	QIU
B	REVISE DIMENSIONS	06/27/12	QIU	DATE:	04/25/12	SCALE:	NTS
A	ORIGINAL DRAFT	04/25/12	QIU	CAD #		TOOL #	
REV	DESCRIPTION	DATE	INT	MGV05023R3M-10-C			2 of 2