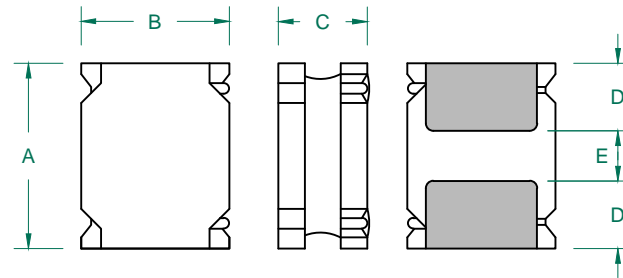


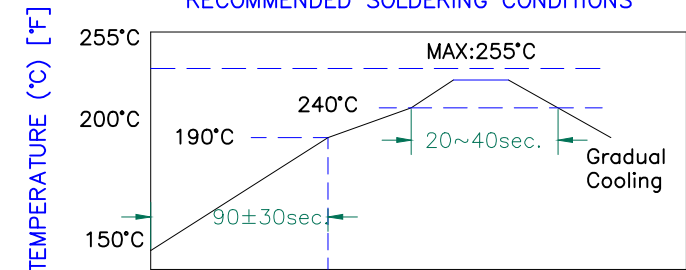
# TYS252010L1R5N-10

## PHYSICAL DIMENSIONS:

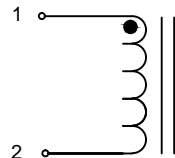
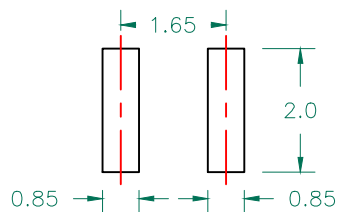
A	2.50	±	0.20
B	2.00	±	0.20
C	1.00	+ -	0.20 0.30
D	0.80	±	0.20
E	0.80	±	0.20



## RECOMMENDED SOLDERING CONDITIONS



## LAND PATTERNS FOR REFLOW SOLDERING



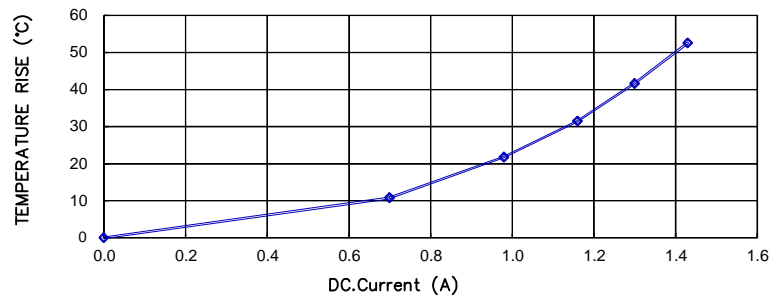
RoHS

## ELECTRICAL SPECIFICATION

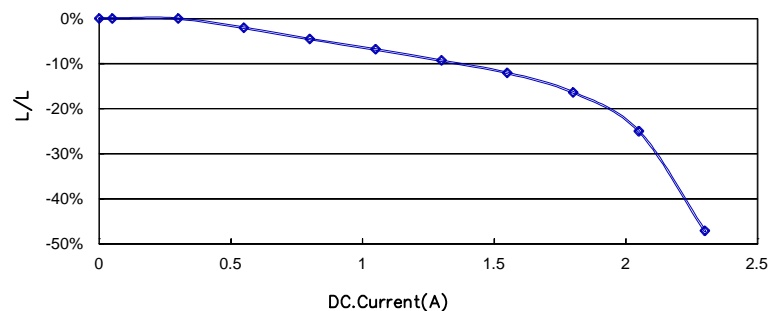
	Min	Typ	Max
INDUCTANCE (uH) L @ 100KHz/1V ±30%	1.05	1.50	1.95
DCR (Ω)			0.182
Saturation Current(A)		2.10	1.80

SRF (MHz)	79
Temperature Rise Current (A)	1.30

## CHARACTERISTICS OF TEMPERATURE RISE



## CURRENT VS INDUCTANCE DROP IN RATES



NOTES: UNLESS OTHERWISE SPECIFIED

- OPERATING TEMPERATURE RANGE:  $-40^{\circ}\text{C}$  TO  $+125^{\circ}\text{C}$  (INCLUDING SELF-HEATING) .
- STORAGE TEMPERATURE RANGE (PACKAGING CONDITIONS):  $-10^{\circ}\text{C}$  TO  $+40^{\circ}\text{C}$  AND RH 70% (MAX.)
- UNLESS OTHERWISE SPECIFIED, THE STANDARD ATMOSPHERIC CONDITIONS FOR MEASUREMENT/TEST AS:
  - AMBIENT TEMPERATURE:  $20\pm 15^{\circ}\text{C}$ .
  - RELATIVE HUMIDITY:  $65\%\pm 20\%$ .
- DEFINITION OF SATURATION CURRENT (ISAT): DC CURRENT AT WHICH THE INDUCTANCE DROPS  $\leq 30\%$  FROM ITS VALUE WITHOUT CURRENT.
- DEFINITION OF TEMPERATURE RISE CURRENT (IRMS): DC CURRENT THAT CAUSES THE TEMPERATURE RISE ( $\Delta T \leq 40^{\circ}\text{C}$ ) FROM  $20^{\circ}\text{C}$  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</b>			
PROJECT/PART NUMBER:				REV	PART TYPE:	DRAWN BY:	
C	CHANGE DIMENSIONS: C/D/E	01/16/18	QIU	C	POWER INDUCTOR	QIU	
B	CHANGE TEMP FROM $-25^{\circ}\text{C}$ ~ $+125^{\circ}\text{C}$	12/27/12	QIU	DATE:	07/06/12	SCALE:	NTS
A	ORIGINAL DRAFT	07/06/12	QIU	CAD #		TOOL #	
REV	DESCRIPTION	DATE	INT	TYS252010L1R5N-10-C			1 of 1

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