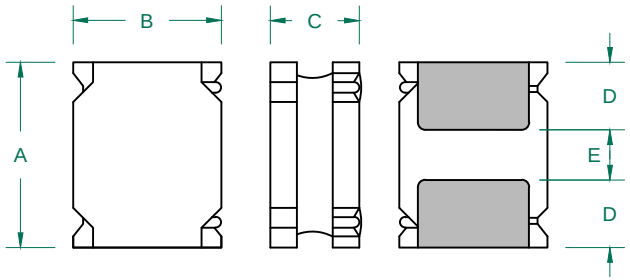
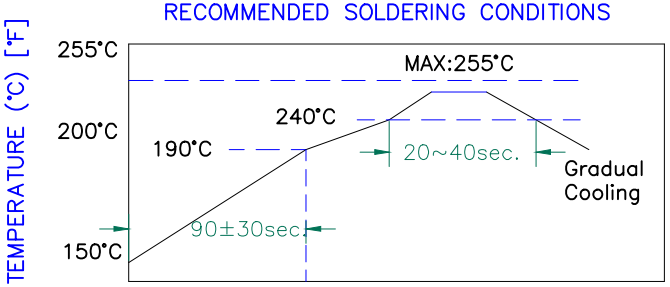
TYS252012L6R8M-10

PHYSICAL DIMENSIONS:

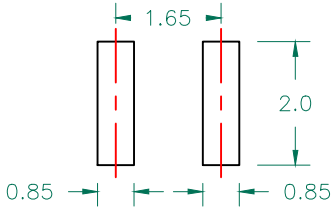
A	2.50	±	0.20
B	2.00	±	0.20
C	1.20	+ −	0.20 0.30
D	0.80	±	0.20
E	0.80	±	0.20

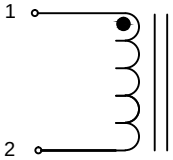


RECOMMENDED SOLDERING CONDITIONS



LAND PATTERNS FOR REFLOW SOLDERING





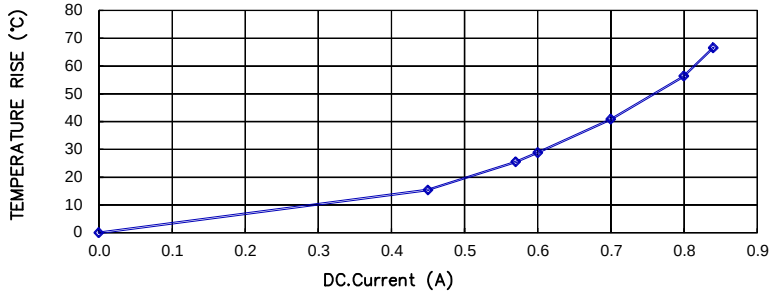
RoHS

ELECTRICAL SPECIFICATION

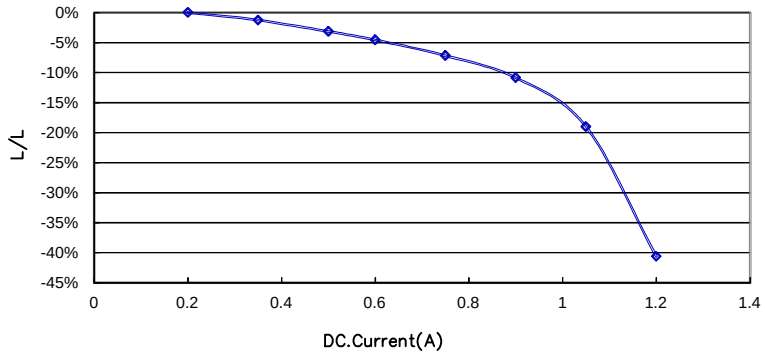
	Min	Typ	Max
INDUCTANCE (uH) L @ 100KHz/1V ±20%	5.44	6.80	8.16
DCR (Ω)			0.536
Saturation Current(A)		1.09	0.98

SRF (MHz)	38
Temperature Rise Current (A)	0.69

CHARACTERISTICS OF TEMPERATURE RISE



CURRENT VS INDUCTANCE DROP IN RATES



NOTES: UNLESS OTHERWISE SPECIFIED

1.OPERATING TEMPERATURE RANGE: −40°C TO +125°C (INCLUDING SELF−HEATING) .

2.STORAGE TEMPERATURE RANGE (PACKAGING CONDITIONS): −10°C TO +40°C AND RH 70% (MAX.)

3.UNLESS OTHERWISE SPECIFIED, THE STANDARD ATMOSPHERIC CONDITIONS FOR MEASUREMENT/TEST AS:
A. AMBIENT TEMPERATURE: 20±15°C.
B. RELATIVE HUMIDITY: 65%±20%.

4.DEFINITION OF SATURATION CURRENT (ISAT): DC CURRENT AT WHICH THE INDUCTANCE DROPS ≤30% FROM ITS VALUE WITHOUT CURRENT.

5.DEFINITION OF TEMPERATURE RISE CURRENT (IRMS): DC CURRENT THAT CAUSES THE TEMPERATURE RISE (ΔT ≤40°C) FROM 20°C AMBIENT.

DIMENSIONS ARE IN mm .

REV	DESCRIPTION	DATE	INT
C	CHANGE DIMENSIONS: A/B/C/D/E	01/16/18	QIU
B	CHANGE TEMP. FROM −25°C~+125°C	12/26/12	QIU
A	ORIGINAL DRAFT	07/06/12	QIU

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.

Laird

PROJECT/PART NUMBER: TYS252012L6R8M−10	REV: C	PART TYPE: POWER INDUCTOR	DRAWN BY: QIU
DATE: 07/06/12	SCALE: NTS	SHEET: 1 of 1	
CAD #: TYS252012L6R8M−10−C	TOOL #: −		