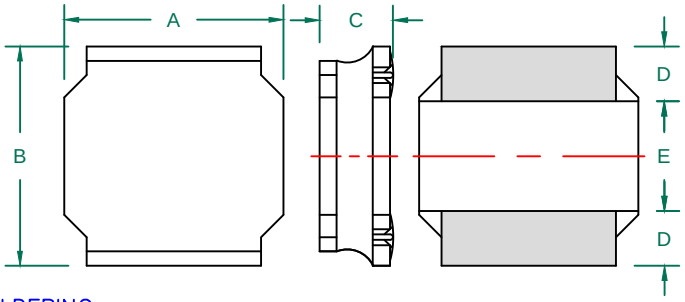
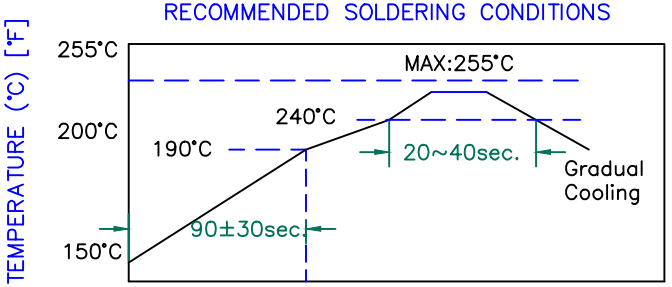
TYS3015100M-10

PHYSICAL DIMENSIONS:

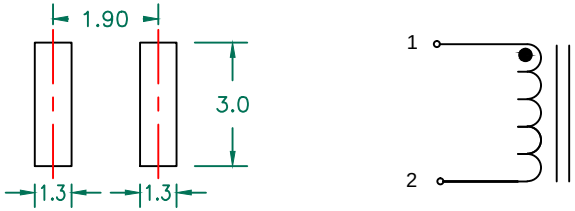
A	3.00	±	0.20
B	3.00	±	0.20
C	1.50	±	0.20
D	1.10	±	0.30
E	0.80	±	0.30



RECOMMENDED SOLDERING CONDITIONS



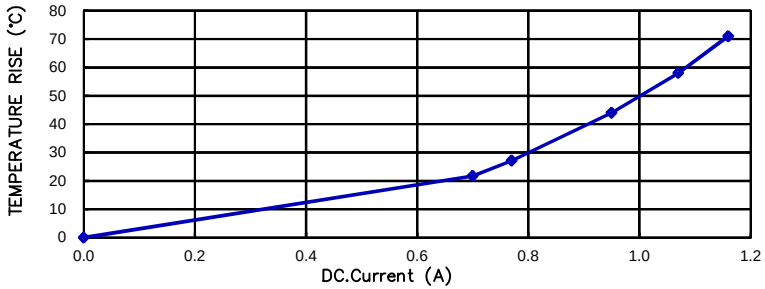
LAND PATTERNS FOR REFLOW SOLDERING



ELECTRICAL SPECIFICATION

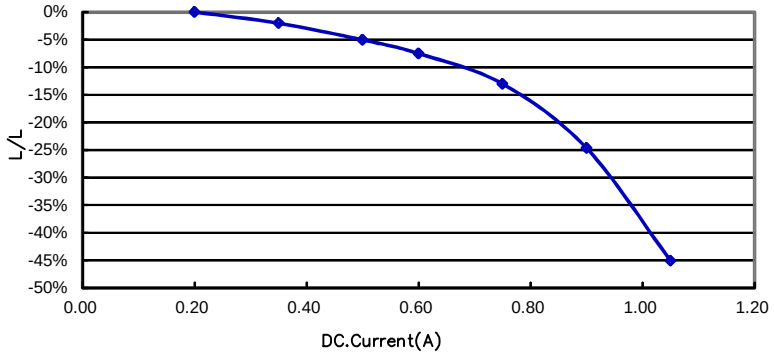
	Min	Nom	Max
INDUCTANCE (uH) L @ 100 KHz/1V ±20%	8.0	10.0	12.0
DCR (Ω)		0.250	0.325

CHARACTERISTICS OF TEMPERATURE RISE



Saturation Current(A)	0.72
SRF (MHz)	41
Temperature Rise Current (A)	0.77

CURRENT VS INDUCTANCE DROP IN RATES



NOTES:

1. OPERATION TEMPERATURE RANGE: −40°C~+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. SATURATION CURRENT IS THE DC CURRENT AT WHICH THE INDUCTANCE DROPS OFF APPROXIMATELY 30% FROM ITS VALUE WITHOUT CURRENT.(AMBIENT TEMPERATURE 25±5°C)

5. TEMPERATURE RISE CURRENT (IRMS):
   DC CURRENT THAT CAUSES THE TEMPERATURE RISE (△T ≤40°C) FROM 25°C AMBIENT.

DIMENSIONS ARE IN mm .

REV	DESCRIPTION	DATE	INT
C	CHANGE DIMENSIONS: C/D/E	07/28/16	QIU
B	CHANGE LOGO	07/28/15	QIU
A	ORIGINAL DRAFT	08/07/12	QIU

Laird

PROJECT/PART NUMBER: TYS3015100M−10	REV: C	PART TYPE: POWER INDUCTOR	DRAWN BY: QIU
DATE: 08/07/12	SCALE: NTS	SHEET: 1 of 1	
CAD #: TYS3015100M−10−C	TOOL #: −		