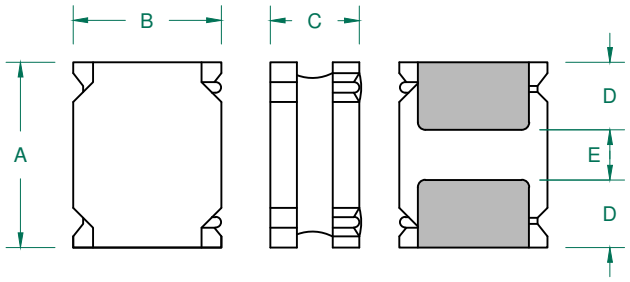
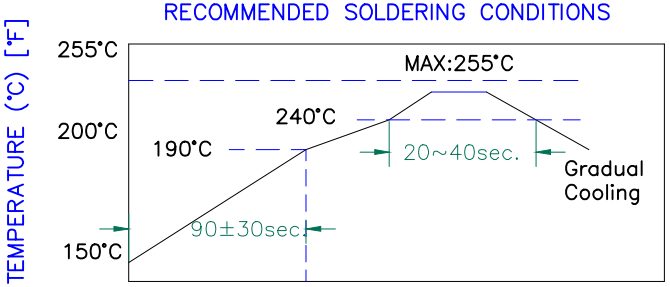
TYS252012L100M-10

PHYSICAL DIMENSIONS:

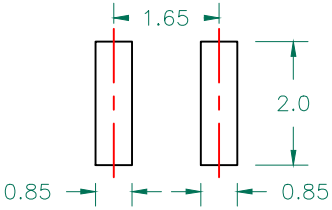
A	2.50	±	0.20
B	2.00	±	0.20
C	1.20	+0.20 / −0.30	
D	0.80	±	0.20
E	0.80	±	0.20

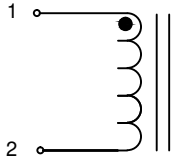


RECOMMENDED SOLDERING CONDITIONS



LAND PATTERNS FOR REFLOW SOLDERING





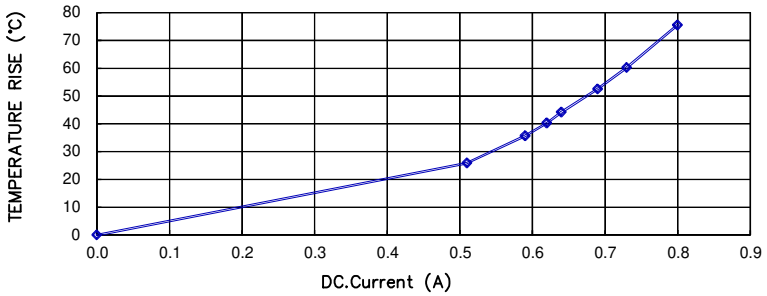
RoHS

ELECTRICAL SPECIFICATION

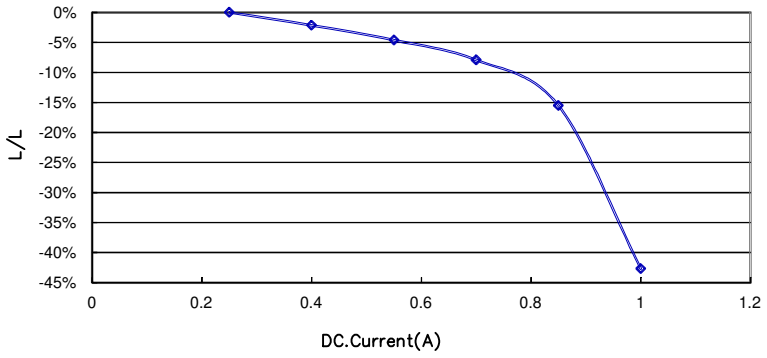
	Min	Typ	Max
INDUCTANCE (uH) L @ 100KHz/1V ±20%	8.0	10.0	12.0
DCR (Ω)			0.637
Saturation Current(A)		0.88	0.79

SRF (MHz)	34
Temperature Rise Current (A)	0.62

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.

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

DIMENSIONS ARE IN mm .

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PROJECT/PART NUMBER: TYS252012L100M−10	REV: C	PART TYPE: POWER INDUCTOR	DRAWN BY: QIU
DATE: 07/06/12	SCALE: NTS	SHEET: 1 of 1	
CAD #: TYS252012L100M−10−C	TOOL #: −		