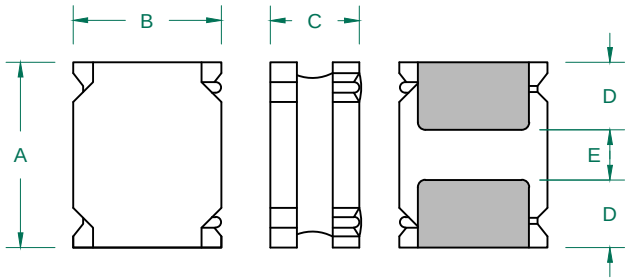
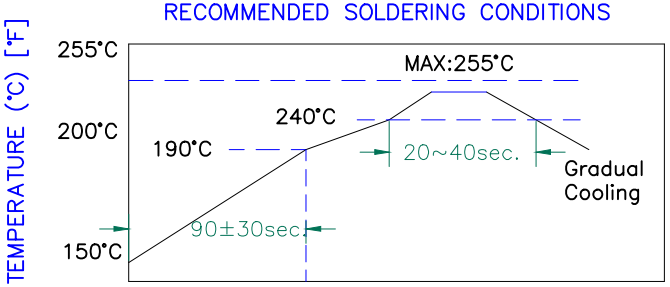
TYS252012LR47N-10

PHYSICAL DIMENSIONS:

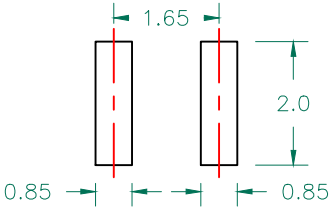
A	2.50	±	0.20
B	2.00	±	0.20
C	1.20	+ −	0.20 0.30
D	0.80	±	0.20
E	0.80	±	0.20

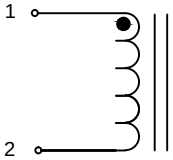


RECOMMENDED SOLDERING CONDITIONS



LAND PATTERNS FOR REFLOW SOLDERING





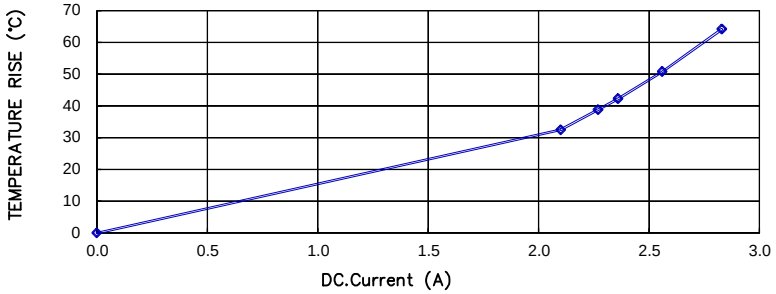
RoHS

ELECTRICAL SPECIFICATION

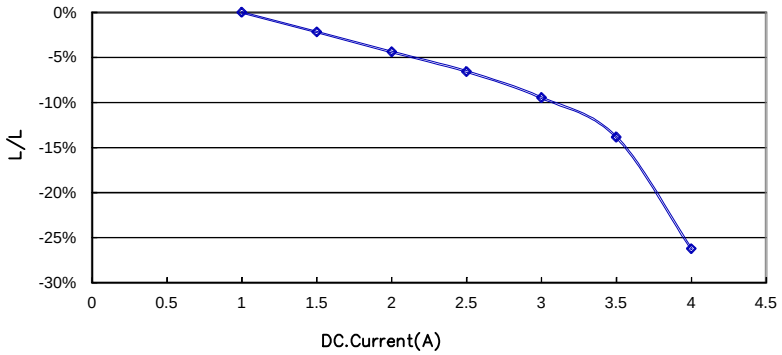
	Min	Typ	Max
INDUCTANCE (uH) L @ 100KHz/1V ± 30%	0.329	0.470	0.611
DCR (Ω)			0.056
Saturation Current(A)		4.27	3.82

SRF (MHz)	160
Temperature Rise Current (A)	2.15

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

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PROJECT/PART NUMBER:	REV	PART TYPE:	DRAWN BY:
TYS252012LR47N−10	C	POWER INDUCTOR	QIU

DATE:	SCALE:	SHEET:
07/06/12	NTS	1 of 1

CAD #	TOOL #
TYS252012LR47N−10−C	−