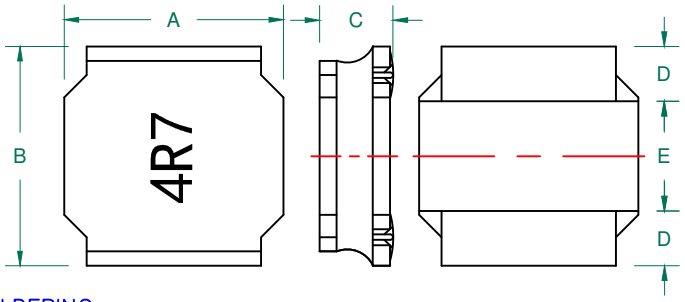
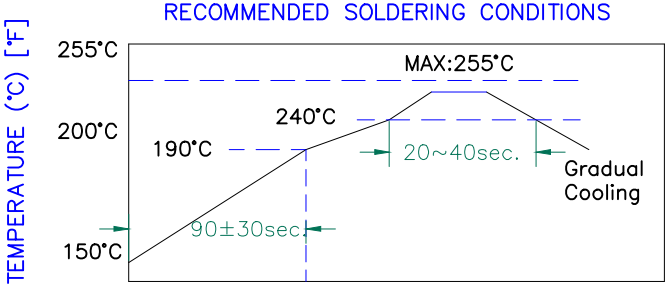
TYS50404R7N-10

PHYSICAL DIMENSIONS:

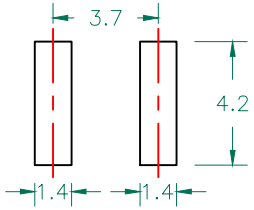
A	5.00	±	0.20
B	5.00	±	0.20
C	4.00		MAX.
D	1.25	±	0.20
E	2.50	±	0.20

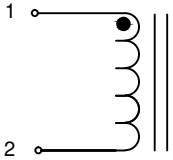


RECOMMENDED SOLDERING CONDITIONS



LAND PATTERNS FOR REFLOW SOLDERING





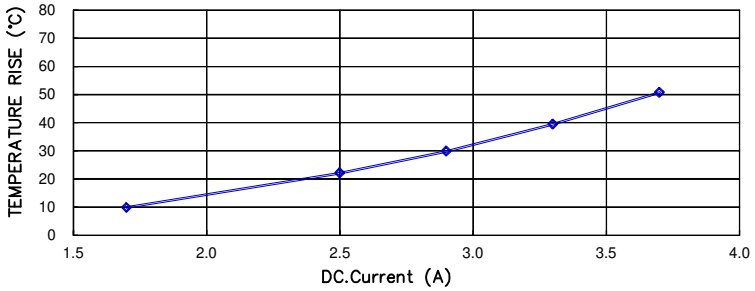
RoHS

ELECTRICAL SPECIFICATION

	Min	Nom	Max
INDUCTANCE (uH) L @ 100 KHz/1V ±30%	3.29	4.70	6.11
DCR (Ω)		0.030	0.036

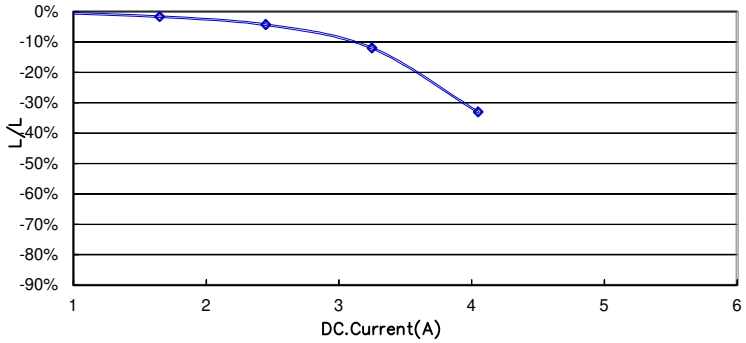
Saturation Current(A)	3.50
SRF (MHz)	28
Temperature Rise Current (A)	3.00

CHARACTERISTICS OF TEMPERATURE RISE



UNCONTROLLED DOCUMENT

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
B	CHANGE TEMP FROM −25°C~+125°C	12/21/12	QIU
A	ORIGINAL DRAFT	05/31/12	QIU

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PROJECT/PART NUMBER:	REV	PART TYPE:	DRAWN BY:
TYS50404R7N−10	B	POWER INDUCTOR	QIU

DATE:	SCALE:	SHEET:
05/31/12	NTS	1 of 1

CAD #	TOOL #
TYS50404R7N−10−B	−