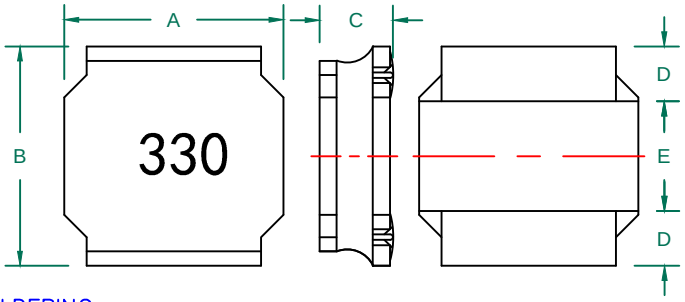
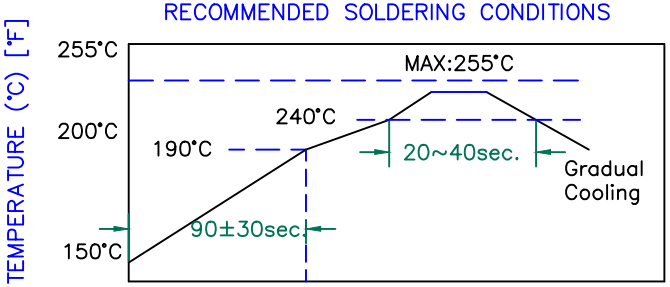
TYS4012330M-10

PHYSICAL DIMENSIONS:

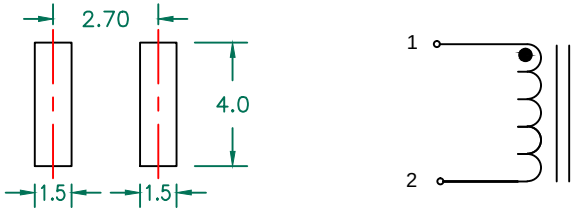
A	4.00	±	0.20
B	4.00	±	0.20
C	1.20	±	0.20
		−	0.30
D	1.30	±	0.30
E	1.40	±	0.30



RECOMMENDED SOLDERING CONDITIONS



LAND PATTERNS FOR REFLOW SOLDERING

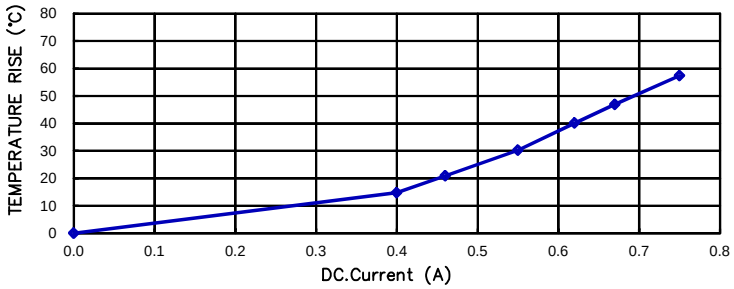


ELECTRICAL SPECIFICATION

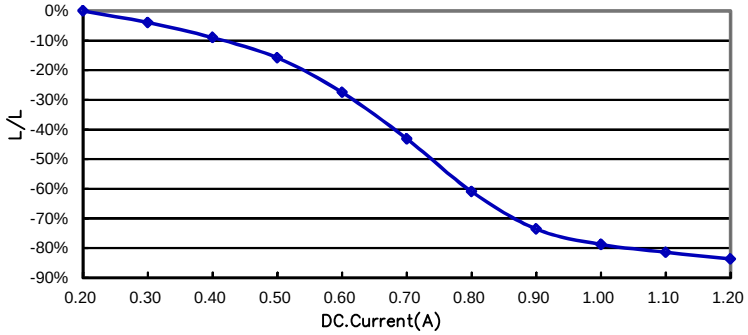
	Min	Nom	Max
INDUCTANCE (uH) L @ 100 KHz/1V ±20%	26.40	33.00	39.60
DCR (Ω)		0.810	1.053

Saturation Current(A)	0.42
SRF (MHz)	17
Temperature Rise Current (A)	0.42

CHARACTERISTICS OF TEMPERATURE RISE



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
D	CHANGE DIMENSIONS: C/D/E	07/28/16	QIU
C	CHANGE TEMP FROM −25°C~+125°C	12/18/12	QIU
B	CHE TEMP,TOLERANCE,LAND PATTERNS	12/19/12	QIU
A	ORIGINAL DRAFT	11/23/11	QIU

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PROJECT/PART NUMBER:	REV	PART TYPE:	DRAWN BY:
TYS4012330M−10	D	POWER INDUCTOR	QIU

DATE:	SCALE:	SHEET:
11/23/11	NTS	1 of 1

CAD # TYS4012330M−10−D TOOL # −