

**FEATURES**

- Low cost magnetic shielded structure
- Low DCR and high efficiency
- Low profile and small size

**APPLICATIONS**

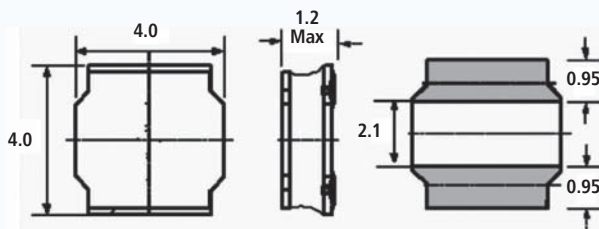
- Power supply and noise filter circuits
- Consumer devices like set top box, wireless route, LCD TV and DVD etc
- Portable electronics such as mobile phone, GPS, digital camera etc
- Tablet, notebook, desktop PC etc

**ELECTRICAL SPECIFICATIONS**

PART NO.	INDUCTANCE (μH)	R <sub>dc</sub> (Ω) ±30%	SATURATION CURRENT (A)	RMS CURRENT (A)	SRF MHZ (REF)
TYS40121RON-10	1.0	0.050	2.61	1.65	120
TYS40122R2N-10	2.2	0.080	1.76	1.32	74
TYS40123R3N-10	3.3	0.090	1.25	1.25	60
TYS40124R7N-10	4.7	0.125	1.15	1.05	50
TYS40125R6N-10	5.6	0.140	1.00	1.00	42
TYS40126R8M-10	6.8	0.216	0.95	0.80	40
TYS4012100M-10	10	0.265	0.80	0.77	33
TYS4012150M-10	15	0.340	0.56	0.64	25
TYS4012220M-10	22	0.470	0.54	0.55	20
TYS4012330M-10	33	0.810	0.42	0.42	17
TYS4012470M-10	47	1.10	0.35	0.37	12
TYS4012680M-10	68	1.46	0.30	0.31	11
TYS4012101M-10	100	2.21	0.25	0.25	9.4

- 1 Tolerance: M: ±20%, N: ±30%
  - 2 Inductance tested at 100 KHz, 1V
  - 3 RMS Current is defined based on temperature rise up to or less than 40°C from 20°C ambient.
  - 4 Saturation Current is the DC current at which the inductance drops approximate 30% from its value without current.
- Standard test conditions:
- 1 Operate temperature range: -25°C~+120°C (including self-temperature rise)
  - 2 Storage temperature range (packaging conditions): -10°C~+40°C and RH 70%(MAX.)

**SHAPES AND DIMENSIONS** Unit: mm Tolerance: ±0.3



global solutions: local support™

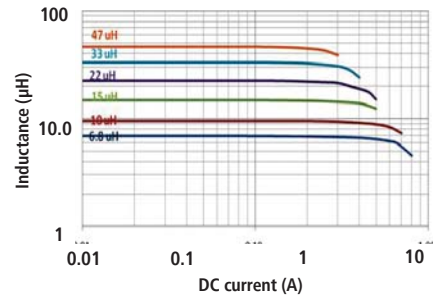
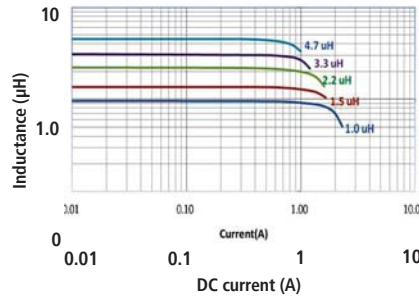
USA: +1.866.928.8181

Europe: +49.0.8031.2460.0

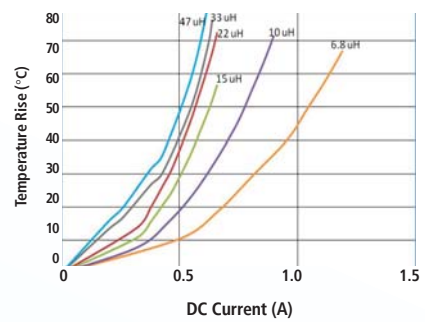
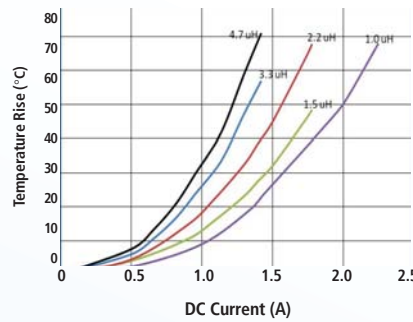
Asia: +86.755.2714.1166

**TYPICAL ELECTRICAL CHARACTERISTICS**

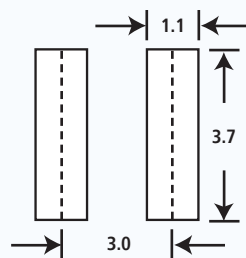
**L vs Current**



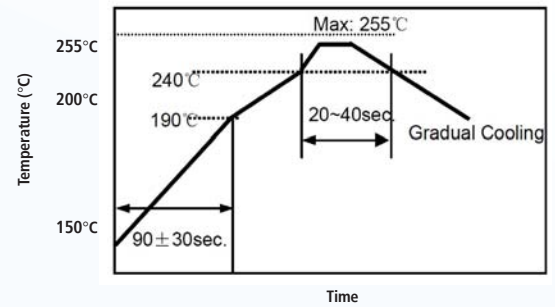
**Characters of Temperature Rise**



**Land Pattern**



**Temperature Profile of Reflow Soldering**



**ORDERING INFORMATION**

**PART NUMBER EXAMPLE**

T	Y	S	4	0	1	2	4	R	7	M	-	1	0
Product series code			Part size code			Inductance value code <small>(i.e. 4R7: 4.7µH)</small>			Tolerance % <small>(i.e. M: ±20% • N: ±30%)</small>		PB free code <small>(i.e. 10: PB free)</small>		