



**FEATURES**  

- Magnetic shielded structure
- Low DCR and high efficiency
- Low profile and small size
- High reliability

**APPLICATIONS**

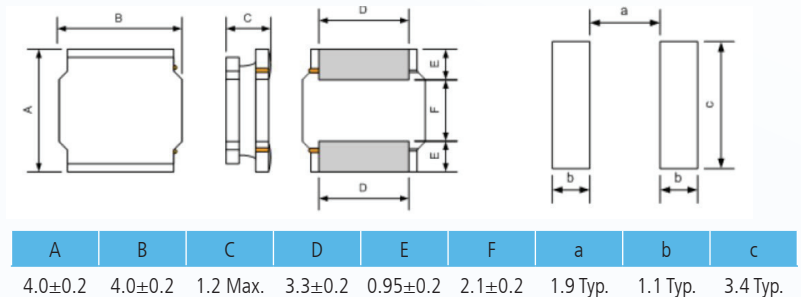
- DC-DC converters and power suppliers
- LCD TV's, Blu-ray and gaming consoles
- Tablets, notebooks, servers and printers
- Smart phones, GPS, set top box and base stations
- LED lighting
- Automotive

**ELECTRICAL SPECIFICATIONS**

PART NO.	INDUCTANCE (μH)	R <sub>dc</sub> (Ω) ±30%	SATURATION CURRENT <sup>5</sup> (A)	RMS CURRENT <sup>4</sup> (A)	SRF MHZ (REF)
TYS40121R0N-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	0.110	1.72	1.12	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	0.198	0.85	0.84	40
TYS4012100M-10	10	0.265	0.80	0.77	33
TYS4012150M-10	15	0.340	0.56	0.64	25
TYS4012220M-10	22	0.587	0.46	0.49	20
TYS4012330M-10	33	0.810	0.42	0.42	17
TYS4012470M-10	47	1.10	0.35	0.37	12
TYS4012680M-10	68	1.950	0.38	0.27	11
TYS4012101M-10	100	2.21	0.25	0.25	9.4

- 1 Electrical specifications at 20°C.
- 2 Tolerance: M: ±20%, N: ±30%
- 3 Inductance tested at 100 KHz, 1V
- 4 RMS Current is defined based on temperature rise up to or less than 40°C from 20°C ambient.
- 5 Saturation Current is the DC current at which the inductance drops approximate 30% from its value without current..
- 6 Operate temperature range: -25°C--+125°C (including self-temperature rise)
- 7 Storage temperature range (packaging conditions): -10°C--+40°C and RH 70%(MAX.)

**SHAPES AND DIMENSIONS** Unit: mm



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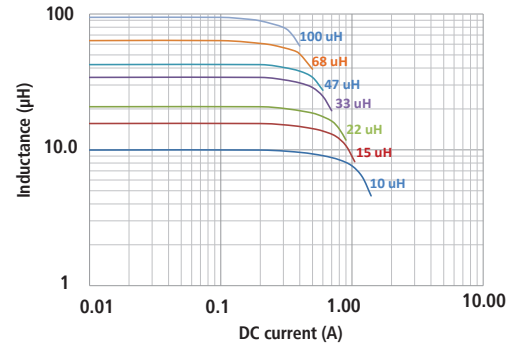
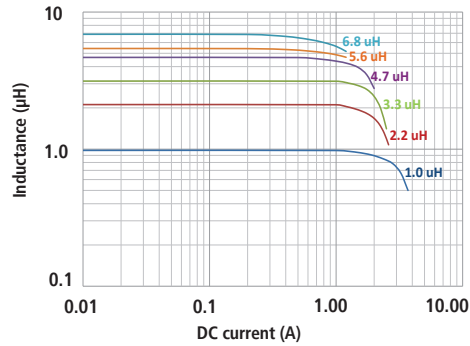
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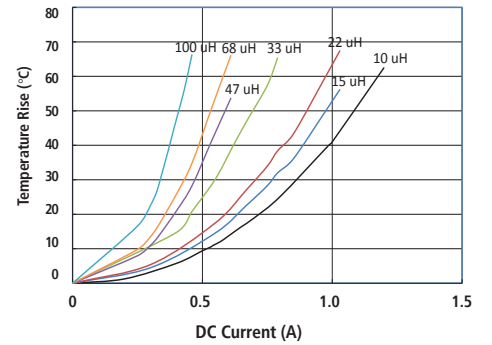
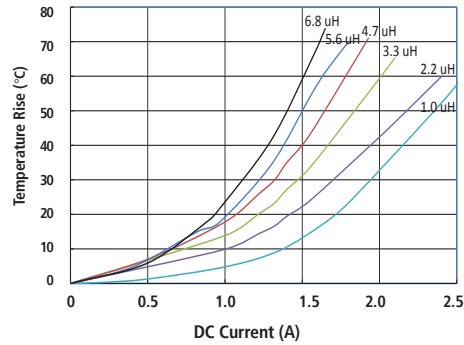
Sample Kit No. **K516** is available for the above parts (5pcs each) by contacting your local Laird Technologies office.

**TYPICAL ELECTRICAL CHARACTERISTICS**

**Typical L vs Current**



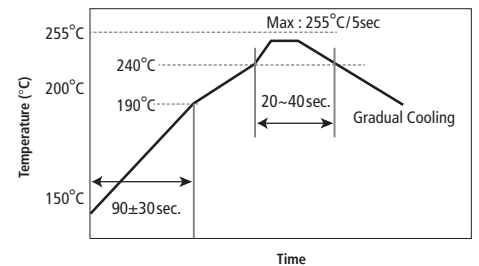
**Characters of Temperature Rise**



**PACKAGING INFORMATION**

- Standard Tape and Reel Quantity (PCS) = 4500
- Reel Size = 13 inches

**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 (i.e. 4R7: 4.7µH)			Tolerance % (i.e. M: ±20% + N:±30%)		PB free code (i.e. 10: PB free)		

SIP-DS-TYS 4012 1012

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