



FEATURES

- Magnetic shielded structure
- Low DCR and high efficiency
- Low profile and small size
- High reliability
- AEC-Q200 qualified

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

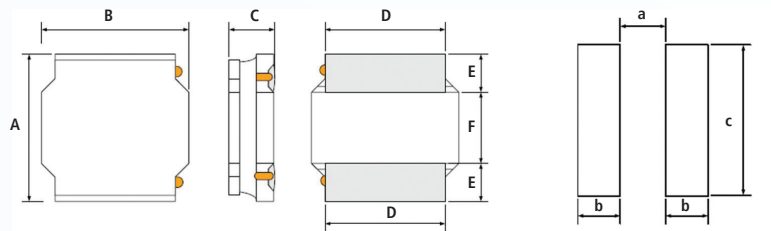
ELECTRICAL SPECIFICATIONS

PART NO.	INDUCTANCE (μH)	Rdc (Ω) ±30%	SATURATION CURRENT ² (A)	RMS CURRENT ⁴ (A)	SRF MHZ (REF)
TYS60201R0N-10	1	0.020	4.15	3.50	100
TYS60201R5N-10	1.5	0.022	4.25	3.20	79
TYS60202R2N-10	2.2	0.028	3.75	2.75	61
TYS60203R3N-10	3.3	0.035	3.15	2.60	51
TYS60204R7N-10	4.7	0.058	3.00	2.00	41
TYS60206R8N-10	6.8	0.079	2.20	1.80	31
TYS6020100M-10	10	0.105	1.75	1.40	27
TYS6020220M-10	22	0.204	1.05	1.00	16

- 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 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: -40°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

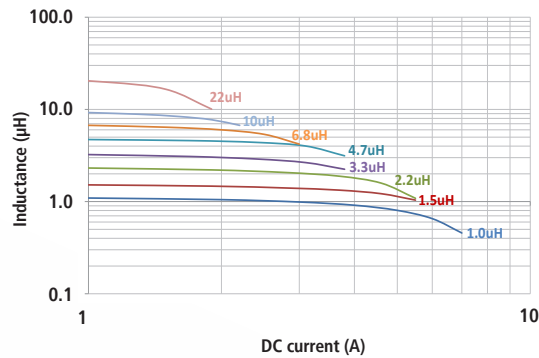


A	B	C	D	E	F	a	b	c
6.0±0.3	6.0±0.3	2.0 Max.	4.9±0.3	1.55±0.3	2.9±0.3	2.8 Typ.	1.7 Typ.	5.7 Typ.

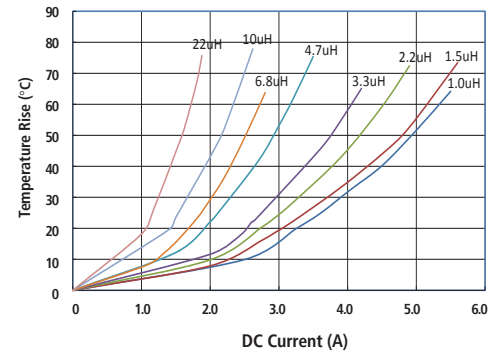
USA: +1.866.928.8181
Europe: +49.0.8031.2460.0
Asia: +86.755.2714.1166

TYPICAL ELECTRICAL CHARACTERISTICS

Typical L vs Current



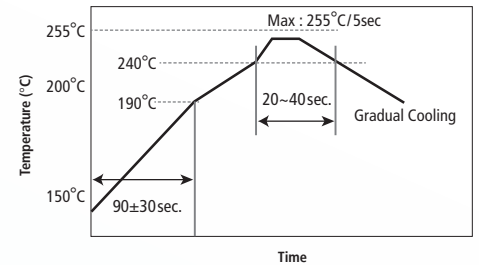
Characters of Temperature Rise



PACKAGING INFORMATION

- Standard Tape and Reel Quantity (PCS) = 2500
- Reel Size = 13 inches

Temperature Profile of Reflow Soldering



ORDERING INFORMATION

PART NUMBER EXAMPLE

T	Y	S	6	0	2	0	4	R	7	N	-	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)		