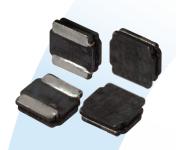


SMD Power Inductor Series



FEATURES ✓ RoHS P6

- 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 ⁵ (A)	RMS CURRENT ⁴ (A)	SRF MHZ (REF)
TYS80401R0N-10	1.0	0.008	9.85	6.30	89
TYS80401R4N-10	1.4	0.010	8.15	5.65	67
TYS80402R0N-10	2.0	0.012	9.25	5.15	43
TYS80402R2N-10	2.2	0.012	7.10	5.15	41
TYS80403R3N-10	3.3	0.017	6.50	4.40	27
TYS80403R6N-10	3.6	0.017	7.52	4.35	30
TYS80404R7N-10	4.7	0.019	5.90	4.10	24
TYS80406R8M-10	6.8	0.024	4.55	3.60	20
TYS8040100M-10	10	0.029	3.60	3.30	15
TYS8040150M-10	15	0.047	2.95	2.60	12
TYS8040220M-10	22	0.069	2.40	2.10	9.5
TYS8040330M-10	33	0.097	2.05	1.80	7.8
TYS8040470M-10	47	0.136	1.75	1.55	6.4
TYS8040680M-10	68	0.196	1.45	1.25	4.9
TYS8040101M-10	100	0.290	1.15	1.00	4.2
TYS8040151M-10	150	0.410	1.10	0.85	3.5
TYS8040221M-10	220	0.599	0.85	0.80	3.5
TYS8040331M-10	330	0.889	0.68	0.64	2.8

¹ Electrical specifications at 20°C.

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

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.

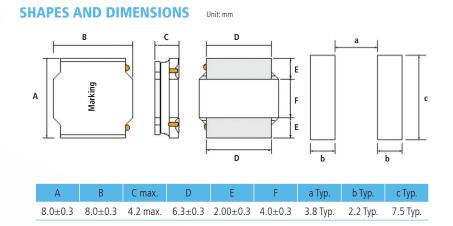
⁵ Saturation Current is the DC current at which the inductance drops approximate 30% from its value without current.

 $^{6 \}qquad \text{Operate temperature range: -40°C} \sim +125°C \text{ (including self-temperature rise)}$

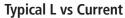
⁷ Storage temperature range (packaging conditions): -10°C~+40°C and RH 70%(MAX.)

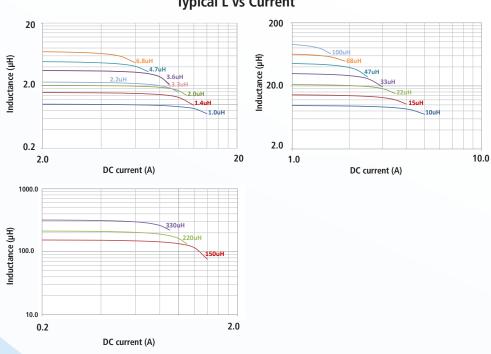


SMD Power Inductor Series



TYPICAL ELECTRICAL CHARACTERISTICS



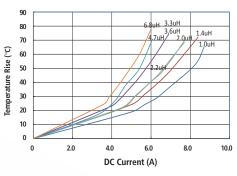


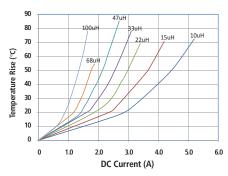
Smart Technology. Delivered.

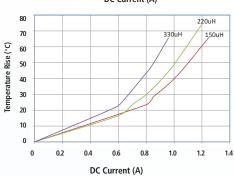
TYS8040

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Characters of Temperature Rise



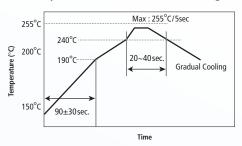




PACKAGING INFORMATION

- Standard Tape and Reel Quantity (PCS) = 1000
- Reel Size = 13 inches

Temperature Profile of Reflow Soldering



ORDERING INFORMATION

PART NUMBER EXAMPLE

