

SMD Power Inductor Series



FEATURES ✓ RoHS **№**





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

APPLICATIONS

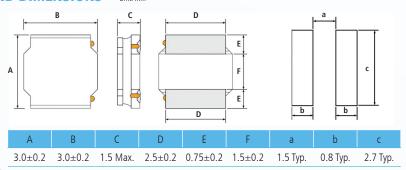
- DC-DC converters and power suppliers
- LCD TV's, Blu-ray and gaming consoles
- Tablets, notebooks, servers and printers
- Smart phones, GPS, set top box and base stations
- LED lighting
- Automotive

ELECTRICAL SPECIFICATIONS

PART NO.	INDUCTANCE (µH)	Rdc (Ω)±30%	SATURATION CURRENT ⁵ (A)	RMS CURRENT ⁴ (A)	SRF MHZ (REF)
TYS30151R0N-10	1.0	0.035	2.32	2.35	150
TYS30151R5N-10	1.5	0.050	2.30	1.70	100
TYS30152R2N-10	2.2	0.060	1.60	1.60	86
TYS30153R3M-10	3.3	0.088	1.32	1.36	68
TYS30154R7M-10	4.7	0.125	1.10	1.09	46
TYS30156R8M-10	6.8	0.200	0.85	0.85	39
TYS3015100M-10	10	0.250	0.72	0.77	41
TYS3015150M-10	15	0.380	0.66	0.65	30
TYS3015220M-10	22	0.460	0.52	0.57	23
TYS3015330M-10	33	0.820	0.44	0.43	20
TYS3015470M-10	47	1.250	0.35	0.35	14

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

SHAPES AND DIMENSIONS



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

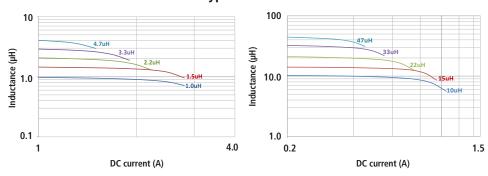
Smart Technology. Delivered.

TYS3015

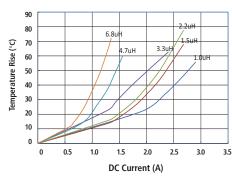
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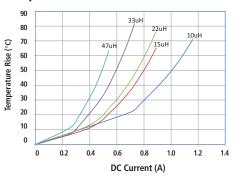
TYPICAL ELECTRICAL CHARACTERISTICS

Typical L vs Current



Characters of Temperature Rise

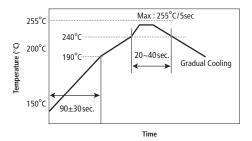




PACKAGING INFORMATION

- Standard Tape and Reel Quantity (PCS) = 2000
- Reel Size = 7 inches

Temperature Profile of Reflow Soldering



ORDERING INFORMATION

PART NUMBER EXAMPLE

