

SMD Power Inductor Series



FEATURES **▼**RoHS **P**6

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

APPLICATIONS

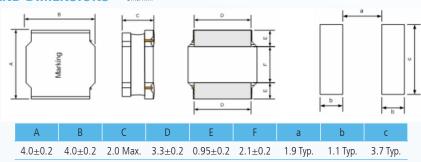
- DC-DC converters and power suppliers
- LCD TV's, Blu-ray and gaming consoles
- Tablets, notebooks, servers and printers
- Smart phones, GPS, set top box and base stations
- LED lighting
- Automotive

ELECTRICAL SPECIFICATIONS

PART NO.	INDUCTANCE (µH)	Rdc (Ω)±30%	SATURATION CURRENT ⁵ (A)	RMS CURRENT ⁴ (A)	SRF MHZ (REF)
TYS40201R0N-10	1.0	0.029	4.78	2.15	75
TYS40202R2N-10	2.2	0.040	3.40	1.85	49
TYS40203R3M-10	3.3	0.070	3.20	1.40	44
TYS40204R7M-10	4.7	0.075	2.35	1.34	42
TYS40206R8M-10	6.8	0.125	2.20	1.04	33
TYS4020100M-10	10	0.165	1.60	0.90	26
TYS4020150M-10	15	0.230	1.35	0.77	24
TYS4020220M-10	22	0.350	1.05	0.62	15
TYS4020330M-10	33	0.550	0.85	0.49	11
TYS4020470M-10	47	0.710	0.74	0.44	10
TYS4020680M-10	68	1.060	0.61	0.36	7.7
TYS4020101M-10	100	1.550	0.48	0.31	6.3

- Electrical specifications at 20°C. Tolerance: M: ±20%, N:±30%
- Inductance tested at 100 KHz, 1V
- RMS Current is defined based on temperature rise up to or less than 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: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (including self-temperature rise)
- Storage temperature range (packaging conditions): -10°C~+40°C and RH 70%(MAX.)

SHAPES AND DIMENSIONS

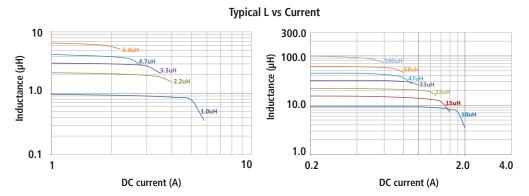


USA: +1.866.928.8181 Europe: +49.0.8031.2460.0 Asia: +86.755.2714.1166

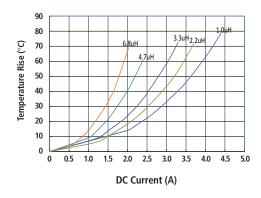
TYS4020

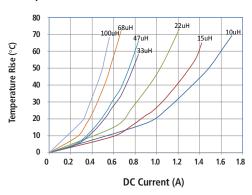
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TYPICAL ELECTRICAL CHARACTERISTICS



Characteristics of Temperature Rise

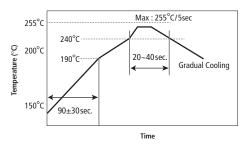




PACKAGING INFORMATION

- Standard Tape and Reel Quantity (PCS) = 3000
- Reel Size = 13 inches

Temperature Profile of Reflow Soldering



ORDERING INFORMATION

PART NUMBER EXAMPLE



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Laird Technologies:

<u>TYS4020470M-10</u> <u>TYS40202R2N-10</u> <u>TYS4020101M-10</u> <u>TYS40206R8M-10</u> <u>TYS40201R0N-10</u> <u>TYS4020100M-10</u> TYS4020330M-10 TYS4020150M-10 TYS4020220M-10 TYS40204R7M-10 TYS4020680M-10 TYS40203R3M-10