

Type 3635 Series



The 3635 series utilises state of the art fine magnet wire construction giving super low resistance and very, very high current ratings. Aligned with Tyco Sigma, reliability, quality and attractive costs makes the 3635 series an attractive product for a wide range of industrial applications where current capability is a key factor.

Key Features

- Available in 2 different packages
- Isat to 35A
- Irms to 38A
- Iron Core technology
- Low RDC
- Less than 6mm high
- Taped and Reeled

Shielded SMD Power Inductors



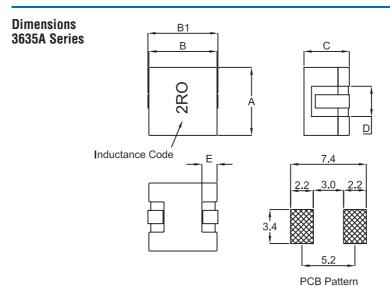
Type 3635 Series

Electrical Characteristics - 3635A Series

Inductance	Inductance	Tolerance	Isat	Irms	R.D.C. (mΩ)	
Code	L (µH)	Toterance	(A)	(A)	Max.	Тур.
R70	0.70	±25%	15.0	16.0	4.8	3.7
1R0	1.00	±25%	12.0	13.0	6.0	4.6
1R5	1.50	±25%	10.0	11.0	6.9	5.3
2R0	2.00	±25%	8.0	9.0	10.7	8.2
2R5	2.50	±25%	7.0	8.4	11.8	9.1
3R0	3.00	±25%	6.3	6.6	17.3	13.3
3R9	3.90	±25%	6.0	6.2	19.1	14.7
4R5	4.50	±25%	5.4	5.8	20.8	16.0

Environmental Characteristics - 3635A Series

Storage Temp:	-55°C to +125°C
Operating Temp:	-55°C to +105°C (Temp. rise included)



Series	A	В	B1	C	D	E
3635A	6.6±0.3	6.6±0.3	7.0±0.3	4.5±0.3	3.2 typ.	1.5 typ.

Reliability Test - 3635A Series

Test Item	Specification	Test Condition
Thermal Shock Test: (Temp Cycle)	$\Delta L \le 20\%$	Room Temp25± 2°C 15 minutes 30 minutes
		Room Temp. 85± 2°C 15 minutes 30 minutes
		Total: 50 cycles
Humidity Resistance Test:	$\Delta L \leq 20\%$	Temperature: 40± 2°C Humidity: 90 ~ 95% Applied Current: Per spec. Time: 500 hours
High Temp. Resistance Test:	$\Delta L \le 20\%$	Temperature: 85± 2°C Applied Current: Per spec. Time: 500 hours



Electronics

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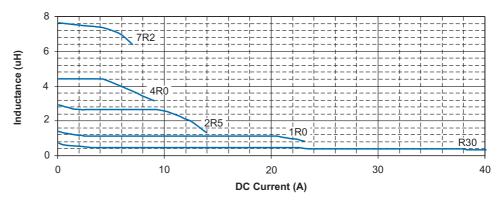
Electrical Characteristics - 3635B Series

Inductance	Initial Inductance	Tolerance	Inductance at Flat Point	Flat Point Ref.	Irms	Isat	DC Resistance (mΩ)	
Code	LO (µH)	1010141100	L1 (µH) ±25	(A)	(A)	(A)	Max.	Typ.
R30	0.54	±25%	0.30	5.00	38.0	35.0	1.8	0.8
R60	0.85	±25%	0.60	5.00	28.0	27.0	2.5	1.5
1R0	1.25	±25%	1.00	5.00	23.0	22.0	3.4	2.8
1R8	2.00	±25%	1.80	2.00	20.0	16.0	3.4	2.5
2R5	2.70	±25%	2.50	2.00	18.0	12.0	3.4	2.5
3R3	3.50	±25%	3.30	2.00	16.0	11.8	5.4	4.3
4R0	4.20	±25%	4.00	2.00	15.0	8.3	5.4	4.3
5R6	5.80	±25%	5.60	2.00	12.0	8.0	11.4	9.2
7R2	7.40	±25%	7.20	2.00	10.0	7.5	13.5	10.5

Environmental Characteristics - 3635B Series

Storage Temp:	-40°C to +125°C
Operating Temp:	-40°C to +105°C
Rated Current:	Base on temp. rise & $\Delta L/L=20\%$ typ.
Temp. Rise:	40°C max.

Inductance Vs DC Superpostion Characteristics - 3635B Series



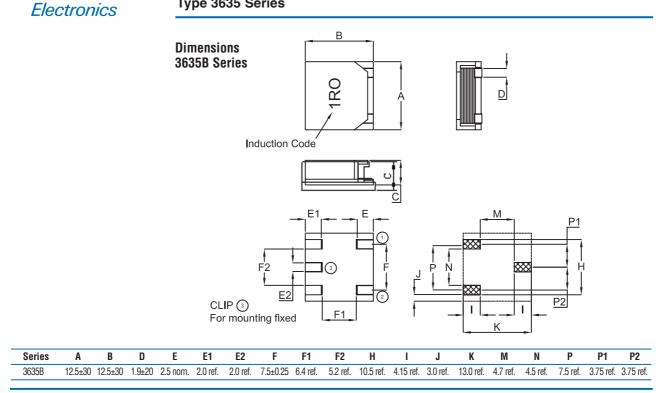
Reliability Test - 3635B Series

Test Item	Specification	Test Condition
Thermal Shock Test: (Temp Cycle)	$\Delta L \leq 20\%$	Room Temp25± 2°C 15 minutes 30 minutes
		Room Temp. 85± 2°C 15 minutes 30 minutes
		Total: 50 cycles
Humidity Resistance Test:	$\Delta L \le 20\%$	Temperature: 40± 2°C Humidity: 90 ~ 95% Applied Current: Per spec. Time: 500 hours
High Temp. Resistance Test:	$\Delta L \le 20\%$	Temperature: 105± 2°C Applied Current: Per spec. Time: 500 hours





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@ DC Current Vs Temperature Rise-3635B Series

