

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



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.

Electrical Characteristics - 3635A Series

Inductance	Inductance	Tolerance	Isat	Irms	R.D.C.	. (mΩ)
Code	L (μH)	Tolerance	(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

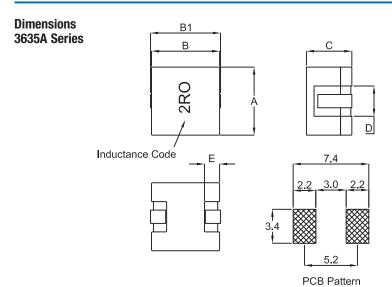
Environmental Characteristics - 3635A Series

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

Reliability Test - 3635A Series

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





Series	Α	В	B1	С	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.

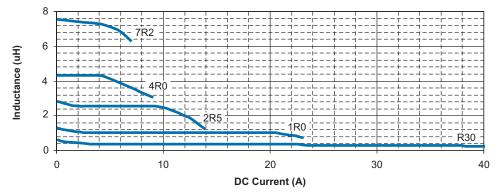
Electrical Characteristics - 3635B Series

Inductance Code	Initial Inductance Tolerance L0 (μH)		Inductance Flat Point at Flat Point Ref. L1 (µH) ±25 (A)		Irms (A)	Isat (A)	DC Resistance (mΩ) 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 & ΔL/L=20% typ.
Temp. Rise:	40°C max.

Inductance Vs DC Superpostion Characteristics - 3635B Series

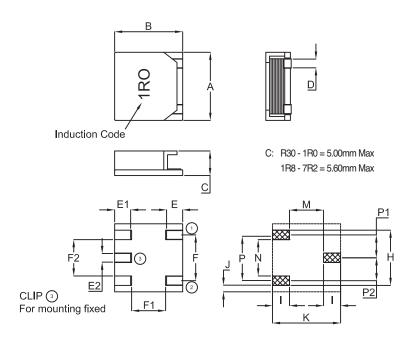




Reliability Test - 3635B Series

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

Dimensions 3635B Series



Series	Α	В	D	E	E1	E2	F	F1	F2	Н	ı	J	K	M	N	Р	P1	P2
3635B	12.5±30	12.5±30	1.9±20	2.5 nom.	2.0 ref.	2.0 ref.	7.5±0.25	6.4 ref.	5.2 ref.	10.5 ref.	4.15 ref.	3.0 ref.	13.0 ref.	4.7 ref.	4.5 ref.	7.5 ref.	3.75 ref.	3.75 ref.



@ DC Current Vs Temperature Rise - 3635B Series

