

MEGGITT MAGNETICS
MOULDED INDUCTORS,
THIN FILM INDUCTORS FOR
HIGH FREQUENCY APPLICATIONS,
POWER CHOKES, FERRITE
BEADS FOR EMC PROTECTION

Surface Mount Power Inductors

TYPE 3631 SERIES



The 3631 Series of SMD Power Chokes are suited to handle large current and has been designed for use in SMD power circuits. With its superior ferrite core material and its low profile construction we can ensure excellent inductance characteristics coupled with proven quality. Please request design kits of Type B parts.

MEGGITT MAGNETICS KEY FEATURES

- **VERY HIGH CURRENT CAPABILITY**
 - **WIDE VALUE RANGE AVAILABLE**
 - **FERRITE CORE**
 - **HANDLES UP TO 7.5 AMPS**
 - **ONLY 12.7mm SQUARE**
 - **TAPED AND REELED**
 - **HIGH RELIABILITY**
 - **ATTRACTIVELY PRICED**
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ELECTRICAL

Electrical ~ Type A Package

Inductance Code	Inductance (μ H)	Tolerance ($\pm$ %)	LQ Test Freq. (Hz)	Rdc Max (Ω)	Idc (A) Max
2R5	2.5	20	1K	0.024	5.0
5R0	5.0	20	1K	0.035	4.0
100	10.0	20	1K	0.054	3.0
250	25.0	20	1K	0.120	2.0
500	50.0	15	1K	0.200	1.5
750	75.0	15	1K	0.330	1.2
101	100.0	10	1K	0.400	1.0

Electrical ~ Type B* Package

Inductance Code	Inductance (μ H)	Tolerance ($\pm$ %)	LQ Test Freq. (Hz)	Rdc Max (Ω)	Idc (A) Max
2R5	2.5	20	1K	0.016	6.20
5R0	5.0	20	1K	0.022	4.70
7R5	7.5	20	1K	0.025	3.80
100	10.0	20	1K	0.035	3.30
120	12.0	20	1K	0.038	3.00
150	15.0	20	1K	0.042	2.80
180	18.0	20	1K	0.050	2.50
220	22.0	20	1K	0.062	2.30
270	27.0	20	1K	0.068	2.00
330	33.0	15	1K	0.090	1.90
390	39.0	15	1K	0.100	1.75
470	47.0	15	1K	0.130	1.60
560	56.0	15	1K	0.155	1.45
680	68.0	15	1K	0.170	1.30
820	82.0	15	1K	0.185	1.20
101	100.0	15	1K	0.220	1.10
121	120.0	15	1K	0.260	1.00
151	150.0	10	1K	0.320	0.90
181	180.0	10	1K	0.330	0.80
221	220.0	10	1K	0.460	0.70
271	270.0	10	1K	0.520	0.65
331	330.0	10	1K	0.660	0.60
391	390.0	10	1K	0.870	0.55
471	470.0	10	1K	0.970	0.50
561	560.0	10	1K	1.320	0.45
681	680.0	10	1K	1.500	0.40
821	820.0	10	1K	1.700	0.35

Electrical ~ Type C Package

Inductance Code	Inductance (μ H)	Tolerance ($\pm$ %)	LQ Test Freq. (Hz)	Rdc Max (Ω)	Idc (A) Max
2R5	2.5	20	1K	0.0114	7.50
4R5	4.5	20	1K	0.0140	6.50
6R5	6.5	20	1K	0.0180	6.00
100	10.0	20	1K	0.0210	5.00
120	12.0	20	1K	0.0250	4.80
150	15.0	20	1K	0.0360	4.00
180	18.0	20	1K	0.0400	3.80
220	22.0	20	1K	0.0430	3.50
270	27.0	20	1K	0.0480	3.00
330	33.0	20	1K	0.0620	2.80
390	39.0	15	1K	0.7600	2.50
470	47.0	15	1K	0.0850	2.20
560	56.0	15	1K	0.1100	2.00
680	68.0	15	1K	0.1350	1.80
820	82.0	15	1K	0.1500	1.60
101	100.0	15	1K	0.1700	1.50
221	220.0	10	1K	0.3800	1.10
331	330.0	10	1K	0.6500	0.85
471	470.0	10	1K	0.8500	0.70
102	1000.0	10	1K	1.6500	0.50

ENVIRONMENTAL

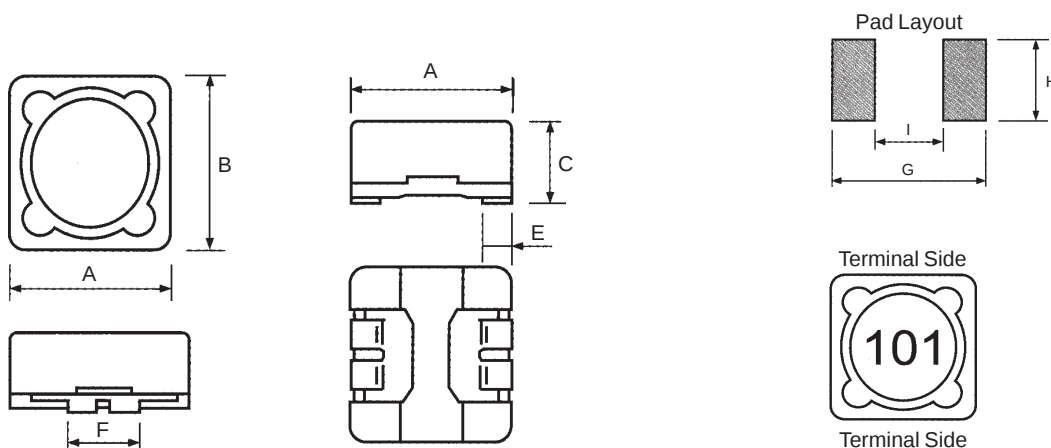
Temperature

Temperature Rise:	40°C maximum
Storage Temperature:	-25°C to +85°C
Operating Temperature:	-20°C to +80°C
Resistance To Solder Heat:	260°C for 10 seconds maximum

Materials

Core:	Ferrite DR+R1 Core
Wire:	Enamelled Copper
Base:	LCP
Terminals:	Nickel Bronze
Filler:	Epoxy Resin

DIMENSIONS



Package	A±0.3	B±0.3	C±0.5	E±0.2	F±0.2	G	H	I
Type A	12.7	12.7	5.0	2.3	5.0	14.0	7.0	6.0
Type B*	12.7	12.7	6.0	2.3	5.0	14.0	7.0	6.0
Type C	12.7	12.7	8.0	2.3	5.0	14.0	7.0	6.0

All Dimensions are
Nominal and in mm
Do Not Scale

3631 Packaging

A Style ~ 600 pieces per 13" Reel
B Style ~ 600 pieces per 13" Reel
C Style ~ 400 pieces per 13" Reel

HOW TO ORDER

3631	A	101	K	TM
Common Part	Package Style	Inductance Value	Tolerance	Tolerance
3631 - Shielded Power Choke	A - 12mm x 12mm x 5mm High B* - 12mm x 12mm x 6mm High C - 12mm x 12mm x 8mm High	See table above for inductance code	L - ± 15% K - ± 10% M - ± 20%	TM - Taped and Reeled

* - The 3631B Type is the Preferred Type



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