

MEGGITT SIGMA  
AXIAL INDUCTORS  
SMD INDUCTORS  
THIN FILM PRINTED INDUCTORS  
POWER CHOKES IN  
RADIAL AND AXIAL STYLE

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## Surface Mount High Current Inductors

### TYPE 3621 SERIES

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A modern range of surface mount high current power chokes, suited to a range of industrial applications. Low cost, five convenient sizes and large area terminals providing excellent solder flow connections, are key design advantages of the 3621 series. Current ratings up to 3 Amps can be achieved. Design Kits are available for the 3621 Type C and E, please enquire.

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### MEGGITT SIGMA KEY FEATURES

- HIGH CURRENT CAPABILITY
- VALUES IN E12 GRID AVAILABLE
- FERRITE CORE
- HANDLES UP TO 3.0 AMPS
- ONLY 5.6mm SQUARE
- TAPED AND REELED
- HIGH RELIABILITY
- FIVE PACKAGE STYLES

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MEGGITT ELECTRONIC  
COMPONENTS LTD

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## ELECTRICAL

## 3621 Type A

Inductance Code	Inductance ( $\mu$ H )	Tolerance ( $\pm$ % )	Q Min	LQ Test Freq. (MHz)	S.R.F. (MHz) Min.	Rdc Max (ohms)	Idc (A) Max
100	10.0	20	35	2.52	25.0	0.09	2.10
120	12.0	20	35	2.52	23.0	0.10	2.00
150	15.0	20	35	2.52	22.0	0.11	1.90
180	18.0	20	35	2.52	19.0	0.12	1.80
220	22.0	20	35	2.52	16.0	0.13	1.60
270	27.0	10	35	2.52	15.0	0.15	1.40
330	33.0	10	35	2.52	13.5	0.18	1.25
390	39.0	10	25	2.52	13.0	0.19	1.15
470	47.0	10	25	2.52	12.2	0.23	1.10
560	56.0	10	25	2.52	12.0	0.26	1.05
680	68.0	10	20	2.52	10.0	0.31	1.00
820	82.0	10	20	2.52	9.2	0.33	0.95
101	100.0	10	15	0.796	9.0	0.39	0.90
121	120.0	10	15	0.796	8.0	0.43	0.85
151	150.0	10	15	0.796	7.5	0.56	0.75
181	180.0	10	15	0.796	7.0	0.64	0.70
221	220.0	10	20	0.796	6.0	0.85	0.60
271	270.0	10	20	0.796	5.5	1.00	0.55
331	330.0	10	20	0.796	5.3	1.27	0.50
391	390.0	10	15	0.796	5.0	1.40	0.45
471	470.0	10	15	0.796	4.8	1.63	0.40
561	560.0	10	15	0.796	4.5	2.10	0.32
681	680.0	10	15	0.796	4.0	2.40	0.28
821	820.0	10	15	0.796	3.5	2.75	0.24
102	1000	10	60	0.252	2.5	3.50	0.22
122	1200	10	60	0.252	2.0	4.00	0.20

## 3621 Type B

Inductance Code	Inductance ( $\mu$ H )	Tolerance ( $\pm$ % )	Q Min	LQ Test Freq. (MHz)	S.R.F. (MHz) Min.	Rdc Max (ohms)	Idc (A) Max
1R5	1.5	20	24	7.96	85.0	0.040	3.00
2R5	2.5	20	21	7.96	74.0	0.045	2.35
3R9	3.9	20	22	7.96	62.0	0.050	2.10
5R0	5.0	20	19	7.96	50.0	0.070	1.60
6R8	6.8	20	19	7.96	44.0	0.110	1.38
7R5	7.5	20	19	7.96	38.0	0.120	1.29
100	10.0	20	24	2.52	34.0	0.150	1.14
120	12.0	20	23	2.52	30.0	0.160	1.02
150	15.0	20	22	2.52	28.0	0.180	0.93
180	18.0	20	23	2.52	24.0	0.250	0.82
220	22.0	20	20	2.52	20.0	0.275	0.75
270	27.0	20	19	2.52	19.0	0.300	0.67
330	33.0	10	23	2.52	15.0	0.450	0.61
390	39.0	10	22	2.52	13.0	0.460	0.56
470	47.0	10	20	2.52	13.0	0.550	0.52
560	56.0	10	17	2.52	12.0	0.615	0.48
680	68.0	10	17	2.52	12.0	0.720	0.44
820	82.0	10	15	2.52	11.0	0.840	0.40

3621 Type C

Inductance Code	Inductance (μ H)	Tolerance (± %)	Q Min	LQ Test Freq. (MHz)	S.R.F. (MHz) Min.	Rdc Max (ohms)	Idc (A) Max
3R3	3.3	20	22	7.96	60.0	0.060	2.00
3R9	3.9	20	22	7.96	40.0	0.065	1.90
4R7	4.7	20	20	7.96	34.0	0.070	1.80
5R6	5.6	20	20	7.96	30.0	0.075	1.70
6R8	6.8	20	20	7.96	28.0	0.080	1.60
8R2	8.2	20	20	7.96	26.0	0.090	1.50
100	10.0	20	30	2.52	23.0	0.100	1.45
120	12.0	15	30	2.52	22.0	0.120	1.40
150	15.0	15	30	2.52	20.0	0.140	1.30
180	18.0	15	30	2.52	18.0	0.150	1.25
220	22.0	15	30	2.52	16.0	0.190	1.10
270	27.0	15	28	2.52	14.0	0.220	1.00
330	33.0	10	24	2.52	13.0	0.250	0.88
390	39.0	10	24	2.52	13.0	0.320	0.80
470	47.0	10	22	2.52	12.0	0.370	0.72
560	56.0	10	22	2.52	11.0	0.420	0.68
680	68.0	10	22	2.52	10.0	0.520	0.62
820	82.0	10	20	2.52	9.0	0.600	0.58
101	100.0	10	20	0.796	8.5	0.700	0.52
121	120.0	10	22	0.796	6.6	0.930	0.48
151	150.0	10	22	0.796	6.2	1.100	0.40
181	180.0	10	20	0.796	6.0	1.380	0.38
221	220.0	10	20	0.796	5.6	1.570	0.35

3621 Type D

Inductance Code	Inductance (μ H)	Tolerance (± %)	Q Min	LQ Test Freq. (MHz)	S.R.F. (MHz) Min.	Rdc Max (ohms)	Idc (A) Max
100	10.0	20	25	2.52	22.0	0.07	2.30
120	12.0	20	25	2.52	20.0	0.08	2.00
150	15.0	20	25	2.52	16.0	0.09	1.80
180	18.0	20	20	2.52	15.0	0.10	1.60
220	22.0	20	20	2.52	13.0	0.11	1.50
270	27.0	10	20	2.52	12.0	0.12	1.30
330	33.0	10	15	2.52	10.0	0.14	1.20
390	39.0	10	15	2.52	9.5	0.16	1.10
470	47.0	10	15	2.52	9.0	0.20	1.00
560	56.0	10	15	2.52	8.5	0.24	0.94
680	68.0	10	15	2.52	8.0	0.30	0.85
820	82.0	10	12	2.52	7.0	0.37	0.78
101	100.0	10	12	0.796	6.5	0.45	0.72
121	120.0	10	12	0.796	5.6	0.48	0.66
151	150.0	10	12	0.796	5.5	0.68	0.58
181	180.0	10	12	0.796	5.0	0.77	0.51
221	220.0	10	12	0.796	4.8	0.96	0.49
271	270.0	10	12	0.796	4.5	1.11	0.42
331	330.0	10	12	0.796	4.3	1.26	0.40
391	390.0	10	12	0.796	3.0	1.77	0.36
471	470.0	10	12	0.796	2.0	1.96	0.34

3621 Type E

Inductance Code	Inductance (μ H)	Tolerance (± %)	Q Min	LQ Test Freq. (MHz)	S.R.F. (MHz) Min.	Rdc Max (ohms)	Idc (A) Max
100	10.0	20	30	2.52	21.0	0.06	2.60
120	12.0	20	30	2.52	20.0	0.07	2.45
150	15.0	20	30	2.52	16.0	0.08	2.25
180	18.0	20	30	2.52	15.0	0.09	2.15
220	22.0	20	25	2.52	13.0	0.10	1.95
270	27.0	10	25	2.52	11.0	0.11	1.75
330	33.0	10	20	2.52	10.0	0.12	1.50
390	39.0	10	20	2.52	9.0	0.14	1.35
470	47.0	10	20	2.52	8.0	0.17	1.25
560	56.0	10	15	2.52	7.5	0.19	1.15
680	68.0	10	15	2.52	7.0	0.22	1.10
820	82.0	10	15	2.52	6.0	0.25	1.00
101	100.0	10	15	0.796	5.2	0.35	0.97
121	120.0	10	15	0.796	5.0	0.40	0.89
151	150.0	10	15	0.796	4.5	0.47	0.78
181	180.0	10	12	0.796	4.0	0.63	0.72
221	220.0	10	12	0.796	3.8	0.73	0.66
271	270.0	10	12	0.796	3.5	0.97	0.57
331	330.0	10	12	0.796	3.2	1.15	0.52
391	390.0	10	12	0.796	3.0	1.30	0.48
471	470.0	10	12	0.796	2.5	1.48	0.42
561	560.0	10	12	0.796	2.3	1.90	0.33
681	680.0	10	12	0.796	2.1	2.25	0.28
821	820.0	10	10	0.796	2.0	2.55	0.24

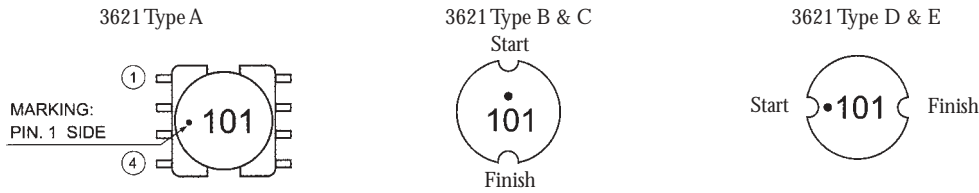
TEMPERATURE

Temperature Rise:	40°C maximum
Storage Temperature:	-40°C to +105°C
Operating Temperature:	-25°C to +85°C
Resistance To Solder Heat:	260°C for 10 seconds maximum

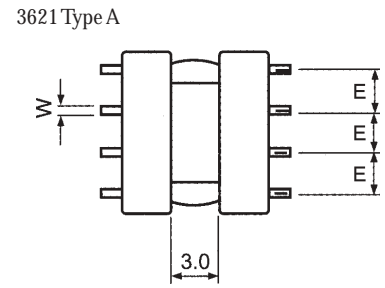
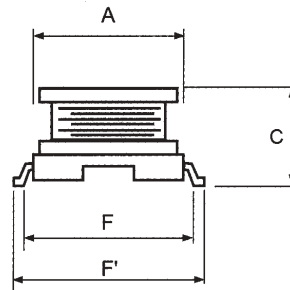
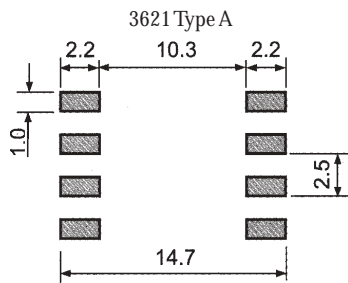
PACKAGING

Type A ~ 600 pieces per 13" Reel on 24mm Tape
Type B ~ 400 pieces per 7" Reel on 12mm Tape
Type C ~ 400 pieces per 7" Reel on 12mm Tape
Type D ~ 1000 pieces per 13" Reel on 16mm Tape
Type E ~ 800 pieces per 13" Reel on 24mm Tape

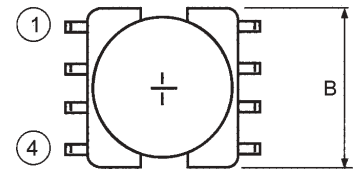
MARKING



DIMENSIONS

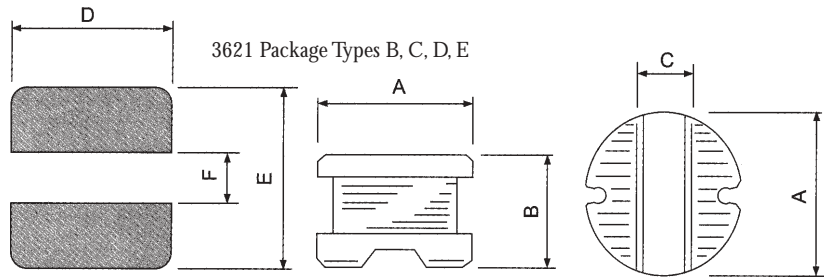


	A	B	C	E	F	F'	W
Type A	9.5	10.5	6.0	2.5	11.0	12.7	0.7



3621 Package Types B, C, D, E

Package	A	B	C	D	E	F
Type B	5.6±0.2	3.7±0.3	1.8	5.8	6.0	1.7
Type C	5.6±0.2	4.5±0.3	1.8	5.8	6.0	1.7
Type D	7.5±0.3	5.0±0.3	2.6	8.0	7.8	2.4
Type E	9.5±0.3	5.5±0.3	2.9	10.0	10.0	2.8



All Dimensions are Nominal and in mm Do Not Scale

HOW TO ORDER

3621	A	100	K
Common Part	Package Style	Inductance Code	Tolerance
3621	A - 9.5mm x 10.5mm x 6.0mm high B - 6mm Dia. x 3.7 high C - 6.0mm Dia. x 4.5mm high D - 7.5mm Dia. x 5.0 high E - 9.5mm Dia. x 5.5mm high	See table above for inductance code	K - ±10% M - ±20%