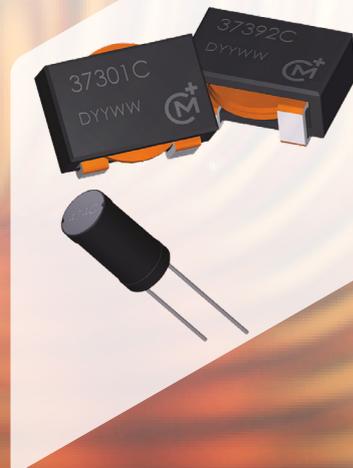


Murata Power Solutions

Power Magnetics

Product Selection Guide

- Inductors
- Transformers
- Common-Mode Chokes



Magnetic Products

Two essential elements of the vast majority of power electronics applications are filtering and isolation. Whether you need to reduce noise or protect vital components, Murata Power Solutions can offer a wide range of products to suit your requirements.

With an emphasis on miniaturization, reliability and ease of handling, our designs are available in a variety of styles including bobbin, radial, axial and surface-mount.

- Inductors
- Pulse transformers
- Common-mode chokes
- Current sensing transformers
- Databus isolators
- Agency approved transformers
- Reference designs
- Custom designs

Index

	Series	Through Hole	Surface Mount	Shielded	Unshielded	Rated Current				Inductance Range								Page
						10mA	100mA	1A	10A	10nH	100nH	1µH	10µH	100µH	1mH	10mH	100mH	
Power Inductors	1100R	✓			✓	140mA		3A				1.0µH		470µH				4
	2200R	✓			✓	18mA		1.62A				10µH					68mH	
	1300R	✓			✓	40mA		6.3A				1.5µH					68mH	
	1900R	✓			✓	70mA		7.8A				4.7µH					100mH	
	1400	✓			✓	400mA		13A				10µH					22mH	5
	8200		✓		✓	70mA		2A				1µH		470µH				
	8400		✓		✓	50mA		2.8A				1µH		2.2mH				
	2900		✓	✓		180mA		6A				1µH		1.0mH				6
	2200RM		✓		✓	26mA		2.52A				10µH					68mH	
	4500		✓	✓		230mA		8A			280nH			1.0mH				
	4600		✓	✓		270mA		8.7A			280nH			1.0mH				
	8300			✓		✓	240mA		3A			420nH		100µH				
	3200		✓			✓	450mA		4.5A			10µH		1.0mH				7
	6000A			✓		✓		4.9A	14.5A				5.8µH		57.8µH			
	6000B			✓		✓		3.0A	10.5A				47µH		680µH			
	3000A			✓	✓			22A	37A		80nH		191nH					
	3000B			✓	✓			29A	37A		85nH		200nH					
	3000D			✓		✓			40A		90nH		155nH					

	Series	Through Hole	Surface Mount	Page
Common Mode Chokes	5000		✓	9
	5000A		✓	10
	5100	✓		9
	5200	✓		10

	Series	Through Hole	Surface Mount	Page
General Purpose Pulse Transformers	786(J)	✓	✓	14 (15)
	1000	✓		15
Application Specific Transformers	78250(J)	✓	✓	10 (11)
	78253(J)	✓	✓	11
	76250ENC 76253/XXENC	✓		12

	Series	Through Hole	Surface Mount	Page
Application Specific Transformers	782482	✓		12
	782485	✓		
Current Sensing Transformers	DA100(J)	✓	✓	13
	5300		✓	16
	5400		✓	
	5600	✓		17

Inductors

THROUGH HOLE

UNSHIELDED



1100R Series

Inductance:	1μH - 470μH
Current:	Up to 3.0A _{dc}
Operating temp:	-40 to +85°C
Height:	7.5mm (0.30")



Inductance	Current	DC Resistance	Model Number
μH	A	Ω	
1.0	3.00	0.02	11R102C
1.5	2.40	0.03	11R152C
2.2	1.90	0.05	11R222C
3.3	1.50	0.07	11R332C
4.7	1.30	0.09	11R472C
6.8	1.10	0.10	11R682C
10	0.95	0.14	11R103C
15	0.80	0.19	11R153C
22	0.65	0.27	11R223C
33	0.55	0.42	11R333C
47	0.50	0.54	11R473C
68	0.40	0.85	11R683C
100	0.35	1.10	11R104C
150	0.30	1.65	11R154C
220	0.24	2.40	11R224C
330	0.19	3.60	11R334C
470	0.14	6.40	11R474C

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THROUGH HOLE

UNSHIELDED



2200R Series

Inductance:	10μH - 68mH
Current:	Up to 1.62A _{dc}
Operating temp:	-25 to +70°C
Height:	10.5mm (0.41")



Inductance	Current	DC Resistance	Model Number
μH	A	Ω	
10	1.62	0.05	22R103C
15	1.35	0.07	22R153C
22	1.08	0.09	22R223C
33	0.90	0.14	22R333C
47	0.77	0.22	22R473C
68	0.77	0.28	22R683C
100	0.67	0.39	22R104C
150	0.52	0.54	22R154C
220	0.43	0.83	22R224C
330	0.38	1.21	22R334C
470	0.31	1.65	22R474C
680	0.25	2.64	22R684C
1mH	0.17	3.63	22R105C
1.5mH	0.13	6.49	22R155C
2.2mH	0.11	8.58	22R225C
3.3mH	0.10	11.0	22R335C
4.7mH	0.081	15.0	22R475C
6.8mH	0.072	22.0	22R685C
10mH	0.063	37.4	22R106C
15mH	0.054	51.7	22R156C
22mH	0.045	82.5	22R226C
33mH	0.036	118.8	22R336C
47mH	0.027	169.4	22R476C
68mH	0.018	242.0	22R686C

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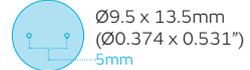
THROUGH HOLE

UNSHIELDED



1300R Series

Inductance:	1.5μH - 68mH
Current:	Up to 6.3A _{dc}
Operating temp:	-40 to +85°C
Height:	13.5mm (0.53")



Inductance	Current	DC Resistance	Model Number
μH	A	Ω	
1.5	6.3	0.008	13R152C
2.2	5.3	0.010	13R222C
3.3	4.8	0.013	13R332C
4.7	4.3	0.017	13R472C
6.8	3.5	0.023	13R682C
10	3.0	0.031	13R103C
15	2.5	0.042	13R153C
22	2.0	0.070	13R223C
33	1.8	0.092	13R333C
47	1.5	0.110	13R473C
68	1.3	0.150	13R683C
100	1.0	0.240	13R104C
150	0.82	0.330	13R154C
220	0.70	0.470	13R224C
330	0.58	0.640	13R334C
470	0.45	1.05	13R474C
680	0.42	1.50	13R684C
1mH	0.33	2.10	13R105C
1.5mH	0.28	3.10	13R155C
2.2mH	0.24	4.50	13R225C
3.3mH	0.19	7.0	13R335C
4.7mH	0.16	9.3	13R475C
6.8mH	0.13	13.5	13R685C
10mH	0.085	23.8	13R106C
15mH	0.080	31.0	13R156C
22mH	0.070	48.0	13R226C
33mH	0.060	68.0	13R336C
47mH	0.045	120.0	13R476C
68mH	0.040	152.0	13R686C

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**THROUGH HOLE
UNSHIELDED**



1900R Series

Inductance:	4.7µH - 100mH
Current:	Up to 7.8A _{DC}
Operating temp:	-40°C to +95°C
Height:	21mm (0.827")



Inductance	Current	DC Resistance	Model Number
µH	A	Ω	
4.7	7.8	0.008	19R472C
6.8	6.7	0.011	19R682C
10	6.0	0.017	19R103C
15	4.8	0.022	19R153C
22	4.0	0.026	19R223C
33	3.7	0.032	19R333C
47	3.4	0.038	19R473C
68	2.9	0.055	19R683C
100	2.2	0.090	19R104C
150	1.9	0.129	19R154C
220	1.6	0.162	19R224C
330	1.34	0.240	19R334C
470	1.09	0.380	19R474C
680	0.91	0.548	19R684C
1mH	0.73	0.844	19R105C
1.5mH	0.63	1.2	19R155C
2.2mH	0.50	2.0	19R225C
3.3mH	0.42	2.5	19R335C
4.7mH	0.35	3.5	19R475C
6.8mH	0.29	5.7	19R685C
10mH	0.23	7.3	19R106C
15mH	0.19	12	19R156C
22mH	0.15	22	19R226C
33mH	0.13	26	19R336C
47mH	0.11	36	19R476C
68mH	0.09	57	19R686C
100mH	0.07	90	19R107C

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**THROUGH HOLE
UNSHIELDED**



1400 Series

Inductance:	10µH - 22mH
Current:	Up to 13A _{DC}
Operating temp:	-40 to +85°C
Height:	14.0 - 21.8mm (0.55 - 0.86")

Inductance	Current	DC Resistance	Model Number
µH	A	Ω	
10	13	0.009	1410313C
15	12	0.009	1415312C
22	11	0.014	1422311C
33	9.3	0.017	1433393C
47	8.3	0.019	1447383C
47	8.5	0.021	1447385C
68	6.2	0.032	1468362C
68	7.3	0.025	1468373C
100	5.4	0.046	1410454C
100	6.0	0.033	1410460C
100	7.8	0.040	1410478C
150	4.0	0.069	1415440C
150	4.9	0.055	1415449C
150	6.5	0.042	1415465C
220	3.5	0.096	1422435C
220	4.1	0.073	1422441C
220	5.5	0.062	1422455C
300	3.0	0.140	1430430C
300	3.3	0.100	1430433C
300	5.0	0.080	1430450C
330	2.8	0.150	1433428C
330	3.3	0.120	1433433C
330	4.5	0.091	1433445C
470	2.3	0.250	1447423C
470	2.7	0.160	1447427C
470	4.0	0.125	1447440C
680	2.0	0.300	1468420C
680	2.2	0.226	1468422C
680	3.1	0.173	1468431C
1mH	1.6	0.460	1410516C
1mH	1.7	0.336	1410517C
1mH	2.4	0.277	1410524C

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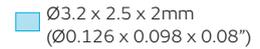


**SURFACE MOUNT
UNSHIELDED**



8200 Series

Inductance:	1.0µH - 470µH
Current:	Up to 2.0A _{DC}
Operating temp:	-40 to +85°C
Height:	2mm (0.08")



Inductance	Current	DC Resistance	Model Number
µH	A	Ω	
1.0	2.0	0.058	82102C
1.5	1.4	0.068	82152C
2.2	1.1	0.104	82222C
3.3	0.95	0.138	82332C
4.7	0.80	0.190	82472C
6.8	0.64	0.270	82682C
10	0.50	0.400	82103C
15	0.40	0.560	82153C
22	0.32	0.920	82223C
33	0.27	1.30	82333C
47	0.25	1.69	82473C
68	0.20	2.55	82683C
100	0.16	3.5	82104C
150	0.13	5.9	82154C
220	0.10	8.0	82224C
330	0.08	13.5	82334C
470	0.07	16.8	82474C

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SURFACE MOUNT

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8400 Series

Inductance:	1μH - 2.2mH
Current:	Up to 2.8A _{DC}
Operating temp:	-40 to +125°C
Height:	2.6mm (0.102")

□ Ø4.5 x 3.3 x 2.6mm
(Ø0.177 x 0.130 x 0.102")

Inductance	Current	DC Resistance	Model Number
1.0	2.8	0.08	84102C
1.3	2.5	0.08	84132C
2.2	2	0.09	84222C
3.3	1.5	0.12	84332C
4.7	1.3	0.15	84472C
6.8	1.05	0.2	84682C
10	0.95	0.24	84103C
15	0.75	0.45	84153C
22	0.6	0.6	84223C
33	0.55	0.86	84333C
47	0.42	1.1	84473C
68	0.38	1.6	84683C
100	0.3	2	84104C
150	0.25	3.2	84154C
220	0.2	4.6	84224C
330	0.17	6.5	84334C
470	0.14	8.5	84474C
680	0.12	11.5	84684C
1000	0.09	18	84105C
1500	0.08	27	84155C
2200	0.05	45	84225C

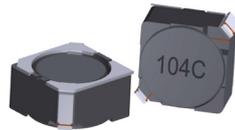
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SURFACE MOUNT

SHIELDED



2900 Series

Inductance:	1μH - 1mH
Current:	180mA - 6.0A
Operating temp:	-40°C to 85°C
Height:	4.0mm (0.157")

□ Ø7.2 x 7.2 x 4.0mm
(Ø0.283 x 0.283 x 0.157")

Inductance	Current	DC Resistance	Model Number
1	6	16	29102C
1.5	5.5	18	29152C
2.2	5	20	29222C
3.3	4	28	29332C
4.7	2.3	30	29472C
6.8	2.1	40	29682C
10	1.8	45	29103C
15	1.5	65	29153C
22	1.2	85	29223C
33	1	120	29333C
47	0.85	170	29473C
68	0.65	250	29683C
100	0.53	360	29104C
150	0.47	500	29154C
220	0.38	760	29224C
330	0.32	1000	29334C
470	0.26	1600	29474C
680	0.21	2400	29684C
1000	0.18	4100	29105C

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SURFACE MOUNT

UNSHIELDED



2200RM Series

Inductance:	10μH - 68mH
Current:	26mA - 2.52A
Operating temp:	-40°C to 85°C
Height:	7.5mm (0.295")

□ Ø7.8 x 7.0 x 7.5mm
(Ø0.307 x 0.276 x 0.295")

Inductance	Current	DC Resistance	Model Number
10	2.52	0.05	22R103MC
15	2.08	0.07	22R153MC
22	1.81	0.09	22R223MC
33	1.31	0.14	22R333MC
47	0.99	0.22	22R473MC
68	0.84	0.28	22R683MC
100	0.8	0.39	22R104MC
150	0.64	0.54	22R154MC
220	0.5	0.83	22R224MC
330	0.42	1.21	22R334MC
470	0.37	1.65	22R474MC
680	0.3	2.64	22R684MC
1.0mH	0.21	3.63	22R105MC
1.5mH	0.16	6.49	22R155MC
2.2mH	0.14	8.58	22R225MC
3.3mH	0.12	10	22R335MC
4.7mH	0.1	13.2	22R475MC
6.8mH	0.077	22	22R685MC
10.0mH	0.068	37.4	22R106MC
15.0mH	0.055	49.5	22R156MC
22.0mH	0.044	82.5	22R226MC
33.0mH	0.037	110	22R336MC
47.0mH	0.033	154	22R476MC
68.0mH	0.026	242	22R686MC

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SURFACE MOUNT

SHIELDED



4500 Series

Inductance:	0.28μH - 1mH
Current:	230mA - 8A
Operating temp:	-40°C to 125°C
Height:	3.55mm (0.14")

□ Ø7.3 x 7.3 x 3.55mm
(Ø0.287 x 0.287 x 0.14")

Inductance	Current	DC Resistance	Model Number
0.28	8	9	45281C
0.54	7	11	45541C
1	6	14	45102C
1.5	5.5	17	45152C
2.2	4.5	26	45222C
3.3	3.7	34	45332C
4.7	3.2	47	45472C
6.8	2.6	66	45682C
10	2.2	82	45103C
15	1.8	120	45153C
22	1.35	180	45223C
33	1.25	250	45333C
47	1.05	360	45473C
68	0.82	510	45683C
100	0.7	710	45104C
150	0.58	1000	45154C
220	0.5	1550	45224C
330	0.35	2540	45334C
470	0.32	3250	45474C
680	0.26	5000	45684C
1000	0.23	6500	45105C

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SURFACE MOUNT
SHIELDED



4600 Series

Inductance:	0.28μH - 1mH
Current:	270mA - 8.7A
Operating temp:	-40°C to 125°C
Height:	4.55mm (0.18")

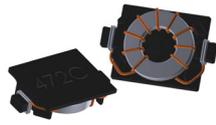
Ø7.3 x 7.3 x 4.55mm
(Ø0.287 x 0.287 x 0.18")

Inductance	Current	DC Resistance	Model Number
μH	A	mΩ	
0.28	8.7	8	46281C
0.54	7.7	10	46541C
1	6.8	13	46102C
1.5	6.3	15	46152C
2.2	5	21	46222C
3.3	4.3	29	46332C
4.7	3.7	37	46472C
6.8	3.1	52	46682C
10	2.4	66	46103C
15	2.2	94	46153C
22	1.8	120	46223C
33	1.45	190	46333C
47	1.25	260	46473C
68	1.05	360	46683C
100	0.86	500	46104C
150	0.72	720	46154C
220	0.57	1050	46224C
330	0.46	1850	46334C
470	0.39	2800	46474C
680	0.32	3900	46684C
1000	0.27	4900	46105C

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SURFACE MOUNT
UNSHIELDED



8300 Series

Inductance:	0.42μH - 100μH
Current:	Up to 3A _{DC}
Operating temp:	-40 to 85°C
Height:	1.8mm (0.071")

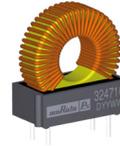
Ø7.8 x 5.2 x 1.8mm
(Ø0.307 x 0.205 x 0.071")

Inductance	Current	DC Resistance	Model Number
μH	A	mΩ	
0.42	3	24	83421C
0.75	2.7	30	83751C
1.2	1.7	65	83122C
1.7	1.55	73	83172C
2.3	1.4	86	83232C
3.3	1.35	98	83332C
4.7	1.1	130	83472C
6.8	0.95	150	83682C
8.5	0.85	167	83852C
10	0.75	185	83103C
15	0.6	300	83153C
22	0.5	350	83223C
33	0.42	600	83333C
47	0.35	710	83473C
68	0.3	850	83683C
82	0.27	1250	83823C
100	0.24	1320	83104C

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THROUGH HOLE
UNSHIELDED



3200 Series

Inductance:	10μH - 1mH
Current:	Up to 4.5A _{DC}
Operating temp:	-40°C to 125°C
Height:	24mm (0.945")

Ø21.5 x 10.0 x 24.0mm
(Ø0.846 x 0.394 x 0.945")

Inductance	Current	DC Resistance	Model Number
μH	A	mΩ	
10	4.5	20	32100C
15	3.7	24	32150C
22	3	29	32220C
33	2.5	36	32330C
47	2.1	42	32470C
68	1.7	62	32680C
100	1.4	77	32101C
150	1.2	117	32151C
220	0.96	141	32221C
330	0.78	215	32331C
470	0.66	312	32471C
680	0.55	377	32681C
1000	0.45	568	32102C

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SURFACE MOUNT
UNSHIELDED



6000A Series

Inductance:	5.8μH - 57.8μH
Current:	Up to 14.5A _{DC}
Operating temp:	-40 to 85°C
Height:	12mm (0.472")

Ø22 x 14.3 x 12mm
(Ø0.867 x 0.472 x 0.472")

Inductance	Current	DC Resistance	Model Number
μH	A	mΩ	
5.8	14.5	5	60A582C
7.8	13.5	6	60A782C
10.2	12	7	60A103C
16.0	9.6	9	60A163C
19.4	8.5	11	60A193C
23.0	8.4	12	60A233C
27.0	7.5	15	60A273C
31.4	6.8	18	60A313C
36.0	6.4	20	60A363C
41.0	5.6	26	60A413C
57.8	4.9	36	60A583C

Download full datasheet:
https://search.murata.co.jp/Ceramy/image/img/P02A/kmp_6000a.pdf

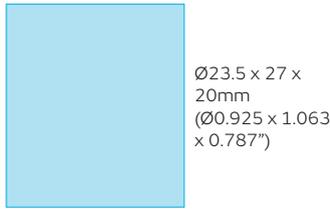


SURFACE MOUNT
SHIELDED



6000B Series

Inductance:	47µH - 680µH
Current:	Up to 10.5A _{DC}
Operating temp:	-40°C to 85°C
Height:	20mm (0.787")

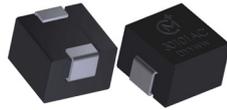


Inductance	Current	DC Resistance	Model Number
µH	A	mΩ	
47	10.5	13	60B473C
68	9.0	17	60B683C
100	7.5	25	60B104C
150	6.0	38	60B154C
220	5.0	50	60B224C
330	4.0	80	60B334C
470	3.5	100	60B474C
680	3.0	135	60B684C

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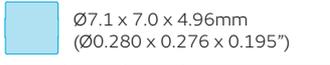


SURFACE MOUNT
SHIELDED



3000A Series

Inductance:	80nH - 191nH
Current:	Up to 37A _{DC}
Operating temp:	-40°C to 130°C
Height:	4.96mm (0.195")



Inductance	Current	DC Resistance	Model Number
nH	A	mΩ	
80	37	0.19	30800AC
97	36	0.2	30101AC
145	29	0.19	30151AC
191	22	0.21	30201AC

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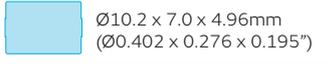


SURFACE MOUNT
SHIELDED



3000B Series

Inductance:	85nH - 200nH
Current:	Up to 37A _{DC}
Operating temp:	-40°C to 130°C
Height:	4.96mm (0.195")



Inductance	Current	DC Resistance	Model Number
nH	A	mΩ	
85	37	0.29	30850BC
100	37	0.29	30101BC
114	37	0.29	30121BC
154	37	0.29	30151BC
200	29	0.29	30221BC

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https://search.murata.co.jp/Ceramy/image/img/P02A/kmp_3000b.pdf



SURFACE MOUNT
SHIELDED



3000D Series

Inductance:	90nH - 155nH
Current:	Up to 40A _{DC}
Operating temp:	-40°C to 125°C
Height:	7.60mm (0.299")



Inductance	Current	DC Resistance	Model Number
nH	A	mΩ	
90	40	0.28	30900DC
105	40	0.28	30111DC
125	40	0.28	30131DC
155	40	0.28	30161DC

Download full datasheet:
https://search.murata.co.jp/Ceramy/image/img/P02A/kmp_3000d.pdf



Common Mode Chokes

**SURFACE MOUNT
TOROIDAL**



5000 Series

Inductance:	0.47mH - 4.7mH
Current:	Up to 0.7A _{dc}
Operating temp:	-40 to 85°C
Height:	4.4mm (0.173")



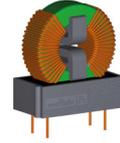
Ø9.3 x 5.9 x 4.4mm
(Ø0.366 x 0.232 x 0.173")

Inductance	Current	DC Resistance	Model Number
mH	mA	Ω	
0.47	700	0.30	50474C
1.00	700	0.30	50105C
2.20	500	0.40	50225C
4.70	400	0.70	50475C

Download full datasheet:
www.murata.com/products/product-data/881604555742/kmp-5000c.pdf?1648429826000



**THROUGH HOLE
TOROIDAL**



5100 Series

Inductance:	0.5mH - 5.0mH
Current:	Up to 4.1A _{dc}
Operating temp:	-40°C to 125°C
Height:	24mm (0.945")



Ø21.0 x 10.0 x 24mm
(Ø0.827 x 0.394 x 0.945")

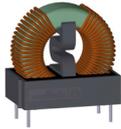
Inductance	Current	DC Resistance	Model Number
mH	A	mΩ	
0.5	4.1	27	51504C
1.0	3.3	38	51105C
3.0	1.9	97	51305C
5.0	1.2	197	51505C

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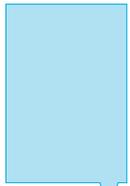
Transformers

**THROUGH HOLE
TOROIDAL**



5200 Series

Inductance:	3.0mH - 10mH
Current:	Up to 3.5A _{dc}
Operating temp:	-40°C to 125°C
Height:	31mm (1.22")



Ø25.5 x 16.3 x 31mm
(Ø1 x 0.642 x 1.22")

Inductance	Current	DC Resistance	Model Number
mH	A	mΩ	
3.0	3.5	45	52305C
5.0	2.4	91	52505C
7.0	2.2	107	52705C
10.0	1.7	193	52106C

Download full datasheet:
www.murata.com/products/product-data/8816045621278/kmp-5200.pdf?1648429826000



**SURFACE MOUNT
TOROIDAL**



5000A Series

Inductance:	0.05mH - 4.7mH
Current:	Up to 0.84ADC
Operating temp:	-40 to 125°C
Height:	4.8mm (0.189")



Ø9.0 x 6.0 x 4.8mm
(Ø0.354 x 0.236 x 0.189")

Inductance	Current	DC Resistance	Model Number
mH	mA	Ω	
0.051	800	0.168	50503AC
0.051	800	0.168	50513AC
0.47	700	0.36	50474AC
1.0	700	0.36	50105AC
2.2	500	0.48	50225AC
4.7	400	0.84	50475AC

Download full datasheet:
<https://www.murata.com/products/productdata/8816046243870/kmp-5000ac.pdf?1660102215000>



THROUGH HOLE

APPLICATION SPECIFIC TRANSFORMERS



MAX250/MAX251 Compatible

78250 Series

Features:	
MAX250/MAX251 compatible	
Isolation to 4kVrms	
Industry-standard pinout	
Height:	6.35mm (0.250")



Ø9.52 x 9.0 x 6.35mm
(Ø0.375 x 0.354 x 0.250")

Model Number	Turns Ratio ±2%	Min. Primary Inductance	Min. Primary Constant, ET	Max. Leakage Inductance	Typ. Interwinding Capacitance	Max. Primary DC Resistance
		mH	Vμs	μH	pF	Ω
78250C	1CT:1CT	1.0	50	3.0	69	2.0
78250VC	1CT:1CT	1.0	50	40	9	1.8

Download full datasheet:
www.murata.com/products/productdata/8816045948958/kmp-78250.pdf?1648429826000



SURFACE MOUNT

APPLICATION SPECIFIC TRANSFORMERS



MAX250/MAX251 Compatible

78250J Series

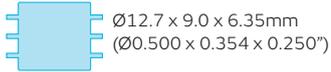
Features:

Maxim MAX250/MAX251 compatible

Isolation to 4kVrms

Surface mount option

Height: 6.35mm (0.250")



Model Number	Turns Ratio ±2%	Min. Primary Inductance	Min. Primary Constant, ET	Max. Leakage Inductance	Typ. Interwinding Capacitance	Max. Primary DC Resistance
		mH	Vµs	µH	pF	Ω
78250JC	1CT:1CT	1.0	50	3.0	48	2.0
78250JVC	1CT:1CT	1.0	50	40	4	1.8

Download full datasheet:

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THROUGH HOLE

APPLICATION SPECIFIC TRANSFORMERS



MAX253 Compatible

78253 Series

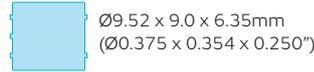
Features:

Maxim MAX253 compatible

3.3V and 5V versions

Isolation to 4kVDC

Height: 6.35mm (0.250")



Model Number	Turns Ratio ±2%	Min. Primary Inductance	Min. Primary Constant, ET	Max. Leakage Inductance	Typ. Interwinding Capacitance	Max. Primary DC Resistance
		mH	Vµs	µH	pF	Ω
78253/35C	1:2.27	0.30	30	1.00	30	1.00
78253/55C	1:1.31	0.60	40	1.00	30	1.50
78253/35VC	1:2.14	110	18	5.00	4.20	0.50
78253/55VC	1:1.33	190	25	8.00	4.20	0.60

Download full datasheet:

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SURFACE MOUNT

APPLICATION SPECIFIC TRANSFORMERS



MAX253 Compatible

78253J Series

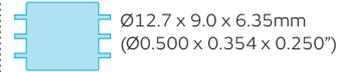
Features:

Maxim MAX253 compatible

3.3V and 5V versions

Isolation to 4kVDC

Height: 6.35mm (0.250")



Model Number	Turns Ratio ±2%	Min. Primary Inductance	Min. Primary Constant, ET	Max. Leakage Inductance	Typ. Interwinding Capacitance	Max. Primary DC Resistance
		mH	Vµs	µH	pF	Ω
78253/35JC	1:2.27	0.27	30	1.00	24	1.00
78253/55JC	1:1.31	0.57	40	1.00	30	1.50
78253/35JVC	1:2.14	0.11	18	5.00	2	0.50
78253/55JVC	1:1.33	0.17	25	8.00	3.4	0.60

Download full datasheet:

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THROUGH HOLE

APPLICATION SPECIFIC TRANSFORMERS

EN Approved
MAX250/
MAX251/253

**76250ENC,
76253/XXENC**



Features:

Maxim MAX250/MAX251/MAX253 compatible

EN62368-1 approved

Isolation to 6kVDC

Height: 12.5mm (0.492")

Ø15.0 x 15.0 x 12.5mm
(Ø0.59 x 0.59 x 0.492")

Model Number	Turns Ratio ±2%	Min. Primary Inductance	Min. Primary Constant, ET	Max. Leakage Inductance	Typ. Interwinding Capacitance	Max. Primary DC Resistance
		mH	Vµs	µH	pF	Ω
76250ENC	1CT:1	1.0	50	40	1.5	2.0
76253/35ENC	1:√5	0.14	25	7.0	2.7	0.8
76253/55ENC	1:1.33	0.08	30	10	2.7	0.9

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THROUGH HOLE

APPLICATION SPECIFIC TRANSFORMERS

ADM2482E /
ADM2487E
Compatible

782482 Series



Features:

Analog Devices ADM2482E/ADM2487E compatible

4.0kVDC isolation

Industry-standard pinout

Height: 6.35mm (0.250mm)

Ø9.14 x 9.77 x 6.35mm
(Ø0.360 x 0.385 x 0.250")

Model Number	Turns Ratio ±2%	Min. Primary Inductance	Min. Primary Constant, ET	Max. Leakage Inductance	Max. Interwinding Capacitance	Max. Primary DC Resistance
		µH	Vµs	µH	pF	mΩ
782482/33VC	1CT:1.33CT	190	13	8	8	600
782482/53VC	1.14CT:1CT	150	13	8	8	600

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www.murata.com/products/productdata/8816045883422/kmp-782482.pdf?1648429826000



THROUGH HOLE

APPLICATION SPECIFIC TRANSFORMERS

ADM2485 Compatible

782485 Series



Features:

Analog Devices ADM2485 compatible

2.5kVrms isolation

Industry-standard pinout

Height: 6.35mm (0.250")

Ø9.14 x 9.77 x 6.35mm
(Ø0.360 x 0.385 x 0.250")

Model Number	Turns Ratio ±2%	Typ. Primary Inductance	Typ. Primary Constant, ET	Typ. Leakage Inductance	Max. Interwinding Capacitance	Max. Primary DC Resistance
		µH	Vµs	nH	pF	mΩ
782485/35C	1CT:2.2CT	234	12	168	50	500
782485/55C	1CT:1.5CT	513	19	192	50	600

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THROUGH HOLE

APPLICATION SPECIFIC TRANSFORMERS



For Digital Audio

DA100 Series

Features:

- Compatible with leading chip sets
- 2kVrms isolation
- Industry-standard pinout

Height: 6.35mm (0.250")

 Ø9.52 x 9.0 x 6.35mm
(Ø0.375 x 0.354 x 0.250")

Model Number	Turns Ratio	Primary Inductance	Max. Leakage Inductance (100kHz, 10mV)	Min. Volt-time Product, Et	Min. Return Loss (100kHz-3MHz)	Typ. Common Mode Rejection (100kHz, 110Ω)	Isolation (Flash tested for 1 second)
		mH	µH	Vµs	dB	dB	Vrms
DA101C	1:1	1.00 - 2.06	0.26	15	46.80	52.10	
DA102C	1:1	2.00 - 3.90	0.65	20	40.40	49.70	2000
DA103C	1:1	4.00 - 7.75	0.91	28	36.30	46.40	

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SURFACE MOUNT

APPLICATION SPECIFIC TRANSFORMERS



For Digital Audio

DA100J Series

Features:

- J-STD-020D reflow
- Compatible with leading chip sets
- 2kVrms isolation

Height: 6.35mm (0.250")

 Ø12.7 x 9.0 x 6.35mm
(Ø0.500 x 0.354 x 0.250")

Model Number	Turns Ratio	Primary Inductance	Max. Leakage Inductance (100kHz, 10mV)	Min. Volt-time Product, Et	Min. Return Loss (100kHz-3MHz)	Typ. Common Mode Rejection (100kHz, 110Ω)	Isolation (Flash tested for 1 second)
		mH	µH	Vµs	dB	dB	Vrms
DA101JC	1:1	1.00 - 2.20	0.36	15	34.6	55.9	
DA102JC	1:1	1.90 - 4.00	0.49	20	38.8	52.4	2000
DA103JC	1:1	3.20 - 8.50	0.91	28	34.9	48.5	

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Transformers

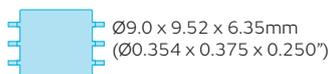
General Purpose Pulse

THROUGH HOLE
GENERAL PURPOSE PULSE TRANSFORMERS



786 Series

Primary Inductance:	Up to 10mH
Isolation Voltage:	1000Vrms
Operating temp:	0°C to +70°C
Height:	6.35mm (0.250")



Model Number	Turns Ratio	Min. Primary Inductance	Min. Primary Constant, ET	Typ. Leakage Inductance	Typ. Interwinding Capacitance	Max. Primary DC Resistance
		µH	Vµs	µH	pF	Ω
78601/4C	1:1	67	4	0.19	8	0.17
78601/3C	1:1	200	6	0.2	14	0.25
78601/2C	1:1	500	10	0.25	22	0.34
78601/8C	1:1	1000	15	0.29	35	0.45
78601/1C	1:1	2000	20	0.47	49	0.6
78601/16C	1:1	4000	28	0.47	78	0.84
78601/9C	1:1	10000	56	0.86	121	1.3
78602/4C	1:1.1	67	4	0.11	12	0.18
78602/3C	1:1.1	200	6	0.17	19	0.24
78602/2C	1:1.1	500	10	0.27	32	0.34
78602/8C	1:1.1	1000	15	0.35	47	0.46
78602/1C	1:1.1	2000	20	0.6	72	0.66
78602/16C	1:1.1	4000	28	0.71	116	0.92
78602/9C	1:1.1	10000	56	0.71	167	1.34
78604/4C	2:1	67	4	0.41	4	0.18
78604/3C	2:1	200	6	0.49	9	0.25
78604/2C	2:1	500	10	0.65	13	0.34
78604/8C	2:1	1000	15	0.76	20	0.46
78604/1C	2:1	2000	20	0.99	29	0.6
78604/16C	2:1	4000	28	1.61	50	0.85
78604/9C	2:1	10000	56	1.64	72	1.23
78613/4C	1CT:1	67	4	0.3	7	0.2
78613/3C	1CT:1	200	6	0.65	12	0.25
78613/2C	1CT:1	500	10	1.07	20	0.36
78613/8C	1CT:1	1000	15	1.13	35	0.48
78613/1C	1CT:1	2000	20	1.53	47	0.63
78613/16C	1CT:1	4000	28	1.98	64	0.88
78613/9C	1CT:1	10000	56	3.83	72	1.33
78615/4C	1CT:1CT	67	4	1.21	3	0.17
78615/3C	1CT:1CT	200	6	3.64	5	0.24
78615/2C	1CT:1CT	500	10	6.86	7	0.34
78615/8C	1CT:1CT	1000	15	11.9	10	0.45
78615/1C	1CT:1CT	2000	20	16	16	0.6
78615/16C	1CT:1CT	4000	28	37.7	20	0.87
78615/9C	1CT:1CT	10000	56	44.5	19	1.33

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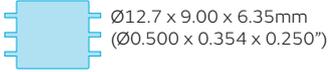
SURFACE MOUNT

GENERAL PURPOSE PULSE TRANSFORMERS



786J Series

Inductance:	Up to 10mH
Isolation Voltage Max:	1000Vrms
Operating temp:	-40°C to +85°C
Height:	6.35mm (0.250")



Model Number	Turns Ratio	Min. Primary Inductance		Typ. Leakage Inductance	Typ. Interwinding Capacitance	Max. Primary DC Resistance	Model Number	Turns Ratio	Min. Primary Inductance		Typ. Leakage Inductance	Typ. Interwinding Capacitance	Max. Primary DC Resistance
		µH	Vµs						µH	Vµs			
78601/4JC	1:1	58	4	0.19	8	0.17	78604/8JC	2:1	850	15	0.76	20	0.46
78601/3JC	1:1	150	6	0.2	14	0.25	78604/1JC	2:1	1840	20	0.99	29	0.6
78601/2JC	1:1	350	10	0.25	22	0.34	78604/16JC	2:1	3300	28	1.61	50	0.85
78601/8JC	1:1	850	15	0.29	35	0.45	78604/9JC	2:1	10000	56	2.3	72	1.23
78601/1JC	1:1	2000	20	0.47	49	0.6	78613/4JC	1CT:1	50	4	0.3	7	0.2
78601/16JC	1:1	3650	28	0.69	78	0.84	78613/3JC	1CT:1	190	6	0.65	12	0.25
78601/9JC	1:1	10000	56	0.93	121	1.3	78613/2JC	1CT:1	490	10	1.07	20	0.36
78602/4JC	1:1:1	53	4	0.11	12	0.18	78613/8JC	1CT:1	980	15	1.13	35	0.48
78602/3JC	1:1:1	180	6	0.17	19	0.24	78613/1JC	1CT:1	2000	20	1.7	47	0.63
78602/2JC	1:1:1	380	10	0.27	32	0.34	78613/16JC	1CT:1	3200	28	2.8	64	0.88
78602/8JC	1:1:1	970	15	0.37	47	0.46	78613/9JC	1CT:1	10000	56	3.83	72	1.33
78602/1JC	1:1:1	1890	20	0.65	72	0.66	78615/4JC	1CT:1CT	65	4	1.21	3	0.17
78602/16JC	1:1:1	3350	28	0.71	116	1.2	78615/3JC	1CT:1CT	190	6	3.64	5	0.24
78602/9JC	1:1:1	10000	56	0.71	167	1.8	78615/2JC	1CT:1CT	500	10	6.86	7	0.34
78604/4JC	2:1	65	4	0.41	4	0.18	78615/8JC	1CT:1CT	1000	15	11.9	10	0.45
78604/3JC	2:1	160	6	0.49	9	0.25	78615/1JC	1CT:1CT	1700	20	16	16	0.6
78604/2JC	2:1	500	10	0.65	13	0.34	78615/16JC	1CT:1CT	3700	28	37.7	20	0.92
							78615/9JC	1CT:1CT	10000	56	52.5	19	1.45

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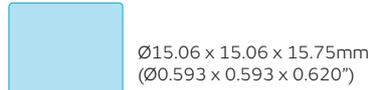
THROUGH HOLE

GENERAL PURPOSE PULSE TRANSFORMERS



1000 Series

Inductance:	Up to 24mH
Isolation Voltage Max:	Up to 4000Vrms
Operating temp:	0°C to +70°C
Height:	15.75mm (0.620")



Model Number	Turns Ratio ±2%	Min. Primary Inductance		Max. Leakage Inductance	Max. Interwinding Capacitance	Max. Primary DC Resistance
		mH	Vµs			
1001C	1:1	3.0	200	32	23	1.2
1013C	1:1:1	3.0	200	3	585	2
1016C	1:1	3.0	200	22	23	1.2
1017C	1:1	0.8	130	5	20	0.4

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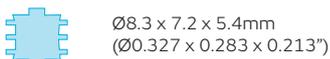
Current Sensing Transformers

SURFACE MOUNT
CURRENT SENSING TRANSFORMERS



5300 Series

- Features:**
- Primary current rating 10A
 - 20 to 200 turn variants
 - Primary to secondary isolation 500Vrms
- Height:** 5.4mm (0.213")



Model Number	Turns Ratio	Min. Secondary Inductance	Max. DC Resistance		Isolation Voltage ¹	Terminating Resistance to produce 1VOUT/1AIN
			Primary (8-7)	Secondary (1-3)		
			mH	mΩ		
53020C	1:20	0.08	7.0	0.55	500	20
53030C	1:30	0.18	7.0	0.85	500	30
53040C	1:40	0.32	7.0	1.10	500	40
53050C	1:50	0.50	7.0	1.75	500	50
53060C	1:60	0.72	7.0	2.20	500	60
53070C	1:70	0.98	7.0	4.50	500	70
53100C	1:100	2.00	7.0	5.60	500	100
53125C	1:125	3.00	7.0	7.50	500	125
53150C	1:150	4.50	7.0	17.50	500	150
53200C	1:200	8.00	7.0	34.00	500	200

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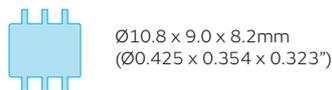


SURFACE MOUNT
CURRENT SENSING TRANSFORMERS



5400 Series

- Features:**
- Primary current rating 15A
 - 50, 100 and 200 turn variants
 - Frequency range 50kHz to 500kHz
- Height:** 8.2mm (0.323")



Model Number	Turns Ratio	Min. Secondary Inductance (0.1V @ 10kHz)	Max. DC Resistance		Isolation Voltage ¹ (Pri-Sec)	Terminating Resistance to produce 1VOUT/1AIN
			Primary (1-6, 2-5)	Secondary (3-4)		
			mH	mΩ		
54050C	1:1:50	3.8	7.0	0.5	1.2	50
54100C	1:1:100	14.8	7.0	3.2	1.2	100
54200C	1:1:200	60.0	7.0	6.6	1.2	200

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THROUGH HOLE

CURRENT SENSING TRANSFORMERS



5600 Series

Features:

50, 100, 200 & 300 Turn variants

Primary current rating 10A

20kHz-200kHz frequency range

Height: 20.19mm (0.795")

Ø8.89 x 16.79 x 20.19mm
(Ø0.350 x 0.661 x 0.795")

Model Number	Number of Turns	Inductance Min.	DC Resistance	Terminating Resistance to Produce 1VOUT/1AIN
	±1Turn	Pins 1&3	Pins 1&3, Ω	Ω
56050C	50	4.5mH @1V, 50kHz	0.133 - 0.199	50
56100C	100	18mH @1V, 50kHz	0.93 - 1.40	100
56200C	200	72mH @1V, 10kHz	1.87 - 2.81	200
56300C	300	160mH @1V, 10kHz	5.73 - 8.59	300
56T100C	100CT	18mH @1V, 50kHz	0.93 - 1.40	100
56T200C	200CT	72mH @1V, 10kHz	1.87 - 2.81	200
56T300C	300CT	160mH @1V, 10kHz	5.73 - 8.59	300

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Global locations

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⚠ Note

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- ⑥ Aerospace equipment
- ⑦ Power plant equipment
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