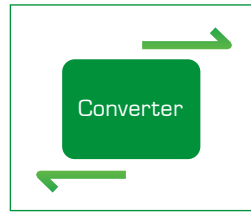
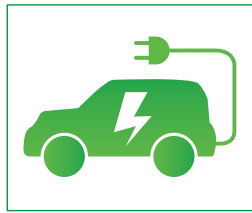
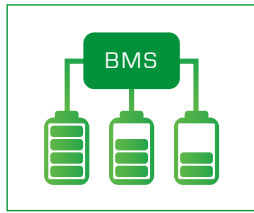
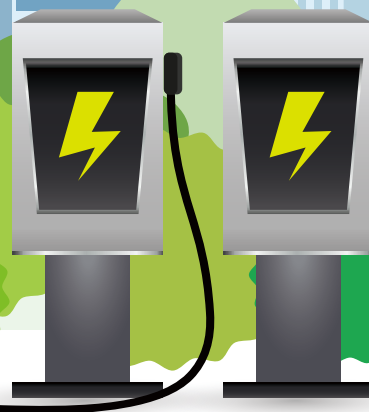


# SMD Inductive Components



Automotive  
Grade



**ABC-ATEC Electronics Group**  
**ABC Taiwan Electronics Corp.**

# SMD Inductive Components Automotive Grade

Unit: mm



Figure	Profile	Type	Dimension (LxWxH mm)	Inductance / Impedance	Rated Current	AEC-Q200 Grade
<b>RF Inductor - Ceramic Wire Wound Chip Inductor</b>						
	RF Ceramic	SWI0402CT-A1	1.0 x 0.55 x 0.5	1.0 ~ 120 nH	1360 mA ~ 110 mA	Grade 1
		SWI0603CS-A1	1.65 x 1.15 x 0.9	1.6 ~ 680 nH	700 mA ~ 100 mA	
<b>Power Inductor - Wound Chip Inductor</b>						
	High Current	ACC3225	3.2 x 2.5 x 2.2	1.0 ~ 100 µH	4.0 A ~ 0.15 A	Grade 1
		ACC4532	4.5 x 3.2 x 3.2	1.0 ~ 1000 µH	2.3 A ~ 0.09 A	
<b>Power Inductor - Shielded Molded Inductor</b>						
	Molded - High Current	MHE0630-T	7.1 x 6.6 x 3.0	0.33 ~ 33 µH	30 A ~ 2.5 A	Grade 0
		MHE0640-T	7.1 x 6.6 x 4.0	1.0 ~ 68 µH	14 A ~ 2.0 A	
		MHE1040-T	11.5 x 10 x 4.0	2.2 ~ 100 µH	18 A ~ 2.0 A	
		MHE0630-Q	7.1 x 6.6 x 3.0	0.1 ~ 10 µH	70 A ~ 7.0 A	
		MHE1040-Q	11.5 x 10 x 4.0	0.68 ~ 47 µH	35 A ~ 3.5 A	
	Molded - Coupled	MCH1040-S	10.15 x 10.8 x 4.0	2.2 ~ 33 µH	15 A ~ 2.5 A	Grade 1
	Mini High Current	ADP2016-E	2.0 x 1.6 x 1.0	0.24 ~ 4.7 µH	7.99 A ~ 1.94 A	Grade 1
<b>Power Inductor - Semi - Shielded Inductor</b>						
	Semi - Shielded	MSN3030	3.0 x 3.0 x 3.0	1.0 ~ 100 µH	5.0 A ~ 0.25 A	Grade 0
		MSN4020	4.0 x 4.0 x 2.0	0.22 ~ 100 µH	21 A ~ 0.7 A	
		MSN4030	4.0 x 4.0 x 3.0	1.0 ~ 100 µH	7.8 A ~ 0.7 A	
		MSN5030	5.0 x 5.0 x 3.0	0.47 ~ 100 µH	10 A ~ 0.65 A	
		MSN5040	5.0 x 5.0 x 4.0	1.5 ~ 47 µH	7.0 A ~ 1.3 A	
		MSN6045	6.0 x 6.0 x 4.7	0.55 ~ 100 µH	18 A ~ 1.2 A	
	Semi - Shielded	TPI4018CT-A1	4.0 x 4.0 x 1.88	0.82 ~ 220 µH	4.2 A ~ 0.3 A	Grade 1
		TPI6045CT-A1	6.0 x 6.0 x 4.5	1.0 ~ 330 µH	8.6 A ~ 0.45 A	
	Semi - Shielded	MRN8040	8.15 x 7.9 x 4.2	0.5 ~ 100 µH	15 A ~ 1.3 A	Grade 0
<b>Power Inductor - Non - Shielded Inductor</b>						
	Non - Shielded	AER0403	Ø4.5 x 4.0 x 3.2	1.0 ~ 68 µH	4.8 A ~ 0.4 A	Grade 0
		AER0604	Ø5.8 x 5.2 x 4.5	1.2 ~ 220 µH	6.0 A ~ 0.47 A	Grade 1
		AER0805	Ø7.8 x 7.0 x 5.0	1.5 ~ 470 µH	6.5 A ~ 0.4 A	Grade 0
		MER1006	Ø10 x 9.0 x 5.4	1.8 ~ 820 µH	7.7 A ~ 0.48 A	Grade 0
		ASB7030	7.0 x 7.0 x 3.0	1.0 ~ 680 µH	4.3 A ~ 0.18 A	Grade 1
<b>Power Inductor - Shielded Inductor</b>						
	Standard	AQS3818	3.8 x 3.8 x 1.8	1.0 ~ 220 µH	3.6 A ~ 0.26 A	Grade 0
		AQS4818	4.8 x 4.8 x 1.8	1.0 ~ 47 µH	5.1 A ~ 0.75 A	
		AQS4828	4.8 x 4.8 x 2.8	1.2 ~ 390 µH	5.0 A ~ 0.35 A	
		AQS5818	5.8 x 5.8 x 1.8	1.5 ~ 220 µH	4.8 A ~ 0.33 A	
		AQS5828	5.8 x 5.8 x 2.8	2.6 ~ 1000 µH	4.5 A ~ 0.21 A	
	Standard	AQS6822	6.8 x 6.8 x 2.3	1.0 ~ 1000 µH	5.8 A ~ 0.28 A	Grade 1
		MQS3228	3.3 x 3.3 x 2.8	10 ~ 100 µH	1.1 A ~ 0.3 A	
		MQS3828	3.8 x 3.8 x 2.8	3.3 ~ 100 µH	2.5 A ~ 0.48 A	
		MQS5228	5.2 x 5.2 x 2.8	1.2 ~ 1000 µH	5.2 A ~ 0.21 A	
		MQS6828	6.8 x 6.8 x 2.8	2.5 ~ 1000 µH	4.9 A ~ 0.3 A	
		MQS6838	6.8 x 6.8 x 3.8	1.0 ~ 100 µH	6.8 A ~ 1.1 A	

# SMD Inductive Components Automotive Grade

Unit: mm



Figure	Profile	Type	Dimension (LxWxH mm)	Inductance	Rated Current	AEC-Q200 Grade
<b>Power Inductor - Shielded Inductor</b>						
		<b>MBS0703</b>	7.3 x 7.3 x 3.5	10 ~ 1000 $\mu$ H	2.1 A ~ 0.17 A	Grade 0
		<b>MBS0704</b>	7.3 x 7.3 x 4.5	10 ~ 1000 $\mu$ H	2.5 A ~ 0.24 A	
	Standard	<b>ASU3028</b>	3.3 x 3.5 x 2.8	10 ~ 47 $\mu$ H	860 mA ~ 380 mA	Grade 1
		<b>ASU5028</b>	5.2 x 5.2 x 2.8	1.2 ~ 100 $\mu$ H	3500 mA ~ 470 mA	
		<b>ASU6025</b>	6.2 x 6.5 x 2.5	1.2 ~ 220 $\mu$ H	4000 mA ~ 420 mA	
		<b>ASU8028</b>	8.0 x 8.0 x 2.8	2.5 ~ 100 $\mu$ H	4.5 A ~ 0.7 A	
		<b>ASU8045</b>	8.0 x 8.0 x 4.5	3.5 ~ 100 $\mu$ H	5.0 A ~ 0.92 A	
		<b>ASU1028</b>	10 x 10 x 2.8	1.0 ~ 150 $\mu$ H	8.0 A ~ 0.65 A	
		<b>ASU1038</b>	10 x 10 x 3.8	1.5 ~ 330 $\mu$ H	7.2 A ~ 0.55 A	
		<b>ASU1048</b>	10 x 10 x 4.8	1.5 ~ 330 $\mu$ H	7.2 A ~ 0.52 A	
	High Inductance	<b>ASS7032</b>	7.0 x 7.0 x 3.2	2.2 ~ 1000 $\mu$ H	2.65 A ~ 0.15 A	Grade 1
		<b>ASS1210</b>	12 x 12 x 10	1.0 ~ 1000 $\mu$ H	16.5 A ~ 0.7 A	
		<b>ASS1260</b>	12.5 x 12.5 x 6.0	1.0 ~ 1000 $\mu$ H	10 A ~ 0.6 A	
		<b>ASS1280</b>	12.5 x 12.5 x 7.5	2.4 ~ 1200 $\mu$ H	12 A ~ 0.65 A	
	High Performance	<b>ACU1048</b>	10 x 10.2 x 4.8	0.68 ~ 470 $\mu$ H	13.5 A ~ 0.7 A	Grade 0
		<b>MCU1277</b>	12.5 x 12.8 x 7.7	22 ~ 470 $\mu$ H	5.8 A ~ 1.2 A	
		<b>MCU1255</b>	12.1 x 12.5 x 5.5	22 ~ 470 $\mu$ H	4.8 A ~ 1.0 A	
		<b>MCU1040</b>	10 x 10.2 x 3.8	1.0 ~ 680 $\mu$ H	12 A ~ 0.48 A	
		<b>MCU1060</b>	10 x 10.2 x 6.0	3.3 ~ 680 $\mu$ H	8.4 A ~ 0.55 A	
		<b>MCU6045</b>	6.0 x 6.3 x 4.5	1.0 ~ 470 $\mu$ H	6.7 A ~ 0.28 A	
		<b>MCU7045</b>	7.0 x 7.4 x 4.5	1.0 ~ 470 $\mu$ H	8.5 A ~ 0.41 A	
	Coupled	<b>MBF0703</b>	7.6 x 7.6 x 3.4	4.7 ~ 1000 $\mu$ H	3.78 A ~ 0.25 A	Grade 0
		<b>MSF1258</b>	12.5 x 12.5 x 6.0	0.47 ~ 1000 $\mu$ H	33 A ~ 0.70 A	Grade 1
		<b>MSF1278</b>	12.5 x 12.5 x 8.0	0.47 ~ 1000 $\mu$ H	56 A ~ 1.14 A	
<b>Common Mode Choke / Data Line</b>						
	Data Line EMI Solution	<b>MSF3225-S</b>	3.2 x 2.5 x 2.4	2.2 ~ 15 $\mu$ H	1.2 A ~ 0.7 A	Grade 1
		<b>MSF3225-B</b>	3.2 x 2.5 x 2.4	22 ~ 100 $\mu$ H	0.4 A ~ 0.15 A	
		<b>MSF3425-E</b>	3.4 x 2.5 x 2.4	51 ~ 100 $\mu$ H	0.4 A ~ 0.2 A	Grade 0
		<b>MSF3425-D</b>	3.4 x 2.5 x 2.4	51 ~ 130 $\mu$ H	0.6 A ~ 0.3 A	Grade 1
		<b>MSF3425-B</b>	3.4 x 2.5 x 2.4	200 ~ 200 $\mu$ H	0.25 A ~ 0.25 A	
		<b>MSF4532-D</b>	4.5 x 3.2 x 3.0	51 ~ 100 $\mu$ H	1.0 A ~ 0.5 A	Grade 2
		<b>ASF4532-E</b>	4.5 x 3.2 x 3.0	200 ~ 200 $\mu$ H	0.11 A ~ 0.11 A	Grade 1
		<b>ASF4532-C</b>	4.5 x 3.2 x 3.0	11 ~ 100 $\mu$ H	0.36 A ~ 0.2 A	Grade 0
		<b>MSF9050</b>	9.2 x 6.0 x 5.0	10 ~ 6500 $\mu$ H	1.6 A ~ 0.3 A	Grade 2
<b>Common Mode Choke / Power Line</b>						
	Power Line EMI Solution	<b>AQF7035</b>	7.0 x 6.0 x 3.5	225 ~ 1800 $\Omega$	5.0 A ~ 1.2 A	Grade 1
		<b>AQF9045</b>	9.0 x 7.0 x 4.5	500 ~ 500 $\Omega$	5.0 A ~ 5.0 A	
		<b>AQF1260</b>	12 x 11 x 6.0	350 ~ 1100 $\Omega$	10 A ~ 4.8 A	
				<b>AQF1560</b>	15 x 13 x 6.0	550 ~ 3000 $\Omega$



# ABC-ATEC Electronics Group

## Headquarter (Yangmei Factory II):

### ABC Taiwan Electronics Corp.

No.98, Ln. 298, Huandong Rd., Yangmei 32665 Taoyuan, Taiwan  
Tel : +886-3-478-8188  
Fax : +886-3-475-5503  
E-mail : abcsa@atec-group.com

## Yangmei Factory I:

No. 422, Sec. 1, Yang-fu Road, Yangmei, 32662 Taoyuan, Taiwan  
Tel : +886-3-478-8105  
Fax : +886-3-478-3855  
E-mail : abcsa@atec-group.com

## Overseas Subsidiary:

### ABC America Electronics Corp.

3240 Scott Blvd, Santa Clara, CA 95054, USA  
Tel : 408-207-0407  
Fax : 408-980-1555

### ABC Electronics (SHANGHAI) Corp.

No. 8130 Jinda Road, Qixian industrial District, Fengxian,  
Shanghai 201403, China  
Tel : +86-21-5757-7870  
Fax : +86-21-5757-8468  
E-mail : aessa@abctwn.com.tw

## Overseas Factory:

### Guangzhou ABC Electronics Corp.

No. 25 Shihua Road, Shanmen, Hualong, Panyu, Guangzhou,  
Guandong 511434, China  
Tel : +86-20-8475-6229  
Fax : +86-20-8475-6937  
E-mail : abcsa@atec-group.com

### AOBA Technology (M) Sdn. Bhd.

No.5, Jalan BS 7/7, Off Jalan Cempaka, Seksyen 9, Taman Bukit  
Serdang, 43300, Seri Kembangan, Selangor, Malaysia  
Tel : +60-3-8942-2111  
Fax : +60-3-8942-5888  
E-mail : aobamkt@atec-group.com



www.atec-group.com



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