



# DESIGN KIT

## WE-LQS SMD Semi-Shielded Power Inductor



### SIZE:

5040/6028/6045/8040

### TECHNICAL DATA:

- L: 1 ~ 100  $\mu$ H
- R<sub>DC typ</sub>: 8 ~ 560 m $\Omega$
- I<sub>sat</sub>: 0.71 ~ 13.5 A
- I<sub>R</sub>: 0.7 ~ 6.3 A

**Order Code 744 0405**  
**Version 1.0**

# WE-LQS

## SMD Semi-Shielded Power Inductor



5040	<b>744 040 540 10</b>
	L: 1 $\mu$ H
	R <sub>DC</sub> typ: 12 m $\Omega$
	I <sub>sat</sub> : 8 A
	I <sub>R</sub> : 4.9 A

5040	<b>744 040 540 22</b>
	L: 2.2 $\mu$ H
	R <sub>DC</sub> typ: 19 m $\Omega$
	I <sub>sat</sub> : 5.3 A
	I <sub>R</sub> : 3.8 A

5040	<b>744 040 540 47</b>
	L: 4.7 $\mu$ H
	R <sub>DC</sub> typ: 30 m $\Omega$
	I <sub>sat</sub> : 3.8 A
	I <sub>R</sub> : 3 A

5040	<b>744 040 540 68</b>
	L: 6.8 $\mu$ H
	R <sub>DC</sub> typ: 43 m $\Omega$
	I <sub>sat</sub> : 3.2 A
	I <sub>R</sub> : 2.5 A

5040	<b>744 040 541 00</b>
	L: 10 $\mu$ H
	R <sub>DC</sub> typ: 64 m $\Omega$
	I <sub>sat</sub> : 2.5 A
	I <sub>R</sub> : 2.1 A

5040	<b>744 040 542 20</b>
	L: 22 $\mu$ H
	R <sub>DC</sub> typ: 129 m $\Omega$
	I <sub>sat</sub> : 1.7 A
	I <sub>R</sub> : 1.5 A

5040	<b>744 040 544 70</b>
	L: 47 $\mu$ H
	R <sub>DC</sub> typ: 272 m $\Omega$
	I <sub>sat</sub> : 1.2 A
	I <sub>R</sub> : 1 A

5040	<b>744 040 546 80</b>
	L: 68 $\mu$ H
	R <sub>DC</sub> typ: 400 m $\Omega$
	I <sub>sat</sub> : 0.99 A
	I <sub>R</sub> : 0.8 A

5040	<b>744 040 541 01</b>
	L: 100 $\mu$ H
	R <sub>DC</sub> typ: 560 m $\Omega$
	I <sub>sat</sub> : 0.82 A
	I <sub>R</sub> : 0.7 A

6028	<b>744 040 630 10</b>
	L: 1 $\mu$ H
	R <sub>DC</sub> typ: 10 m $\Omega$
	I <sub>sat</sub> : 7.5 A
	I <sub>R</sub> : 5.2 A

6028	<b>744 040 630 22</b>
	L: 2.2 $\mu$ H
	R <sub>DC</sub> typ: 20 m $\Omega$
	I <sub>sat</sub> : 5.6 A
	I <sub>R</sub> : 3.75 A

6028	<b>744 040 630 47</b>
	L: 4.7 $\mu$ H
	R <sub>DC</sub> typ: 30 m $\Omega$
	I <sub>sat</sub> : 3.3 A
	I <sub>R</sub> : 3.08 A

6028	<b>744 040 630 68</b>
	L: 6.8 $\mu$ H
	R <sub>DC</sub> typ: 47 m $\Omega$
	I <sub>sat</sub> : 2.8 A
	I <sub>R</sub> : 2.4 A

6028	<b>744 040 631 00</b>
	L: 10 $\mu$ H
	R <sub>DC</sub> typ: 72 m $\Omega$
	I <sub>sat</sub> : 2.2 A
	I <sub>R</sub> : 1.95 A

6028	<b>744 040 632 20</b>
	L: 22 $\mu$ H
	R <sub>DC</sub> typ: 140 m $\Omega$
	I <sub>sat</sub> : 1.6 A
	I <sub>R</sub> : 1.4 A

6028	<b>744 040 634 70</b>
	L: 47 $\mu$ H
	R <sub>DC</sub> typ: 315 m $\Omega$
	I <sub>sat</sub> : 1.3 A
	I <sub>R</sub> : 1.06 A

6028	<b>744 040 636 80</b>
	L: 68 $\mu$ H
	R <sub>DC</sub> typ: 360 m $\Omega$
	I <sub>sat</sub> : 0.88 A
	I <sub>R</sub> : 0.86 A

6028	<b>744 040 631 01</b>
	L: 100 $\mu$ H
	R <sub>DC</sub> typ: 500 m $\Omega$
	I <sub>sat</sub> : 0.71 A
	I <sub>R</sub> : 0.7 A

6045	<b>744 040 640 10</b>
	L: 1 $\mu$ H
	R <sub>DC</sub> typ: 11 m $\Omega$
	I <sub>sat</sub> : 11 A
	I <sub>R</sub> : 5.14 A

6045	<b>744 040 640 22</b>
	L: 2.2 $\mu$ H
	R <sub>DC</sub> typ: 14 m $\Omega$
	I <sub>sat</sub> : 7.4 A
	I <sub>R</sub> : 4.6 A

6045	<b>744 040 640 47</b>
	L: 4.7 $\mu$ H
	R <sub>DC</sub> typ: 26 m $\Omega$
	I <sub>sat</sub> : 5.5 A
	I <sub>R</sub> : 3.3 A

6045	<b>744 040 640 68</b>
	L: 6.8 $\mu$ H
	R <sub>DC</sub> typ: 31 m $\Omega$
	I <sub>sat</sub> : 4.3 A
	I <sub>R</sub> : 3 A

6045	<b>744 040 641 00</b>
	L: 10 $\mu$ H
	R <sub>DC</sub> typ: 48 m $\Omega$
	I <sub>sat</sub> : 3.5 A
	I <sub>R</sub> : 2.45 A

6045	<b>744 040 642 20</b>
	L: 22 $\mu$ H
	R <sub>DC</sub> typ: 89 m $\Omega$
	I <sub>sat</sub> : 2.2 A
	I <sub>R</sub> : 1.85 A

6045	<b>744 040 644 70</b>
	L: 47 $\mu$ H
	R <sub>DC</sub> typ: 200 m $\Omega$
	I <sub>sat</sub> : 1.5 A
	I <sub>R</sub> : 1.2 A

6045	<b>744 040 646 80</b>
	L: 68 $\mu$ H
	R <sub>DC</sub> typ: 289 m $\Omega$
	I <sub>sat</sub> : 1.3 A
	I <sub>R</sub> : 1 A

6045	<b>744 040 641 01</b>
	L: 100 $\mu$ H
	R <sub>DC</sub> typ: 433 m $\Omega$
	I <sub>sat</sub> : 1 A
	I <sub>R</sub> : 0.8 A

8040	<b>744 040 840 10</b>
	L: 1 $\mu$ H
	R <sub>DC</sub> typ: 8 m $\Omega$
	I <sub>sat</sub> : 13.5 A
	I <sub>R</sub> : 6.3 A

8040	<b>744 040 840 22</b>
	L: 2.2 $\mu$ H
	R <sub>DC</sub> typ: 12 m $\Omega$
	I <sub>sat</sub> : 7.8 A
	I <sub>R</sub> : 5.15 A

8040	<b>744 040 840 47</b>
	L: 4.7 $\mu$ H
	R <sub>DC</sub> typ: 19 m $\Omega$
	I <sub>sat</sub> : 6.5 A
	I <sub>R</sub> : 4.1 A

8040	<b>744 040 841 00</b>
	L: 10 $\mu$ H
	R <sub>DC</sub> typ: 29 m $\Omega$
	I <sub>sat</sub> : 4.6 A
	I <sub>R</sub> : 3.3 A

8040	<b>744 040 842 20</b>
	L: 22 $\mu$ H
	R <sub>DC</sub> typ: 69 m $\Omega$
	I <sub>sat</sub> : 2.6 A
	I <sub>R</sub> : 2.1 A

8040	<b>744 040 844 70</b>
	L: 47 $\mu$ H
	R <sub>DC</sub> typ: 136 m $\Omega$
	I <sub>sat</sub> : 1.9 A
	I <sub>R</sub> : 1.55 A

8040	<b>744 040 846 80</b>
	L: 68 $\mu$ H
	R <sub>DC</sub> typ: 196 m $\Omega$
	I <sub>sat</sub> : 1.6 A
	I <sub>R</sub> : 1.25 A

8040	<b>744 040 841 01</b>
	L: 100 $\mu$ H
	R <sub>DC</sub> typ: 290 m $\Omega$
	I <sub>sat</sub> : 1.3 A
	I <sub>R</sub> : 1 A

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