



# DESIGN KIT

## WE-LQS SMD Semi-Shielded Power Inductor



### SIZE:

5040/6028/6045/8040

### TECHNICAL DATA:

L: 1 ~ 100  $\mu$ H

$R_{DC, typ}$ : 8 ~ 560 m $\Omega$

$I_{sat}$ : 0.71 ~ 13.5 A

$I_R$ : 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

EMC COMPONENTS | **INDUCTORS** | TRANSFORMERS | RF COMPONENTS | CIRCUIT PROTECTION | EMC SHIELDING MATERIAL | CONNECTORS | SWITCHES | ASSEMBLY TECHNIQUE | POWER ELEMENTS

**Important information:** Würth Elektronik's design kits contain reference components. These components correspond with the current product development status on the day of supply. Exchange of the reference components to components with up-to-date product development status is not carried out automatically. No liability is taken for the use of these reference components. Therefore, please request new samples prior to releases for series production and product release.

Please check datasheets on [www.we-online.com](http://www.we-online.com) for specifications. Würth Elektronik eiSos GmbH & Co. KG, EMC & Inductive Solutions. © 2014

[www.we-online.com](http://www.we-online.com)

All products  
ex stock!

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Inductor Kits & Accessories](#) category:*

*Click to view products by [Wurth](#) manufacturer:*

Other Similar products are found below :

[B82498X001](#) [EKDMGN08A-KIT](#) [EKDMGN011-KIT](#) [HCTI-HCTC-KIT](#) [EKDMAT02-KIT](#) [DK0051](#) [EKDMAT04-KIT](#) [HCTC-KIT](#) [744779](#)  
[VLS6045EX-KIT](#) [VLS6045EX-H-KIT](#) [TFM201610ALMA-KIT](#) [VLS5045EX-KIT](#) [CP-P36/22-2S](#) [CPV-RM12/I-1S-12PD-TZ](#) [744062](#)  
[TSTH-MM](#) [TTH 50-150](#) [31743](#) [WE-1413H](#) [WE-237](#) [WE-2750H](#) [WE-279](#) [WE-2886H](#) [WE-3671H](#) [WE-3683H](#) [WE-3686](#) [WE-3693](#) [WE-](#)  
[3698H](#) [WE-3701H](#) [WE-3759](#) [CPHS-EFD20/7-1S-10P](#) [E30-K-H-12P-SS-P3002](#) [E65-54-K-H](#) [EE13-K-H-8P-SW](#) [EE13-K-V-10P-SW](#)  
[EE25\\_10\\_6-K-V-10P-YW-360](#) [EF12.6-K-H-9P-P1212](#) [EF16-K-H-8P](#) [EF16-K-H-9P-SW](#) [EF20-K-H-8P](#) [EF20-K-H-8P-SW](#) [EFD12\\_3.5-K-1S-](#)  
[8P-CPHS](#) [EFD15-K-10P-4S](#) [EFD25-K-10P-WZ7855](#) [FIRCHK](#) [CLI-EFD25](#) [TSTH-MD](#) [WE-3657H](#) [WE-3621H](#)