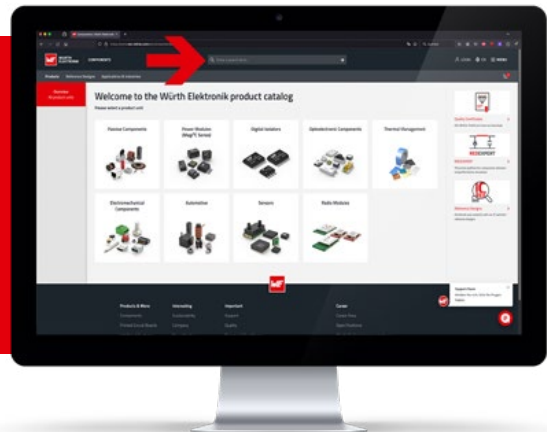


EMC COMPONENTS

HOW TO FIND DETAILED PRODUCT INFORMATION?

VISIT WWW.WE-ONLINE.COM AND SEARCH FOR PRODUCT SERIES INFORMATION, E.G.:

WE-CBF



FERRITES FOR PCB ASSEMBLY



WE-TMSB

Z @ 100 MHz: 10 ~ 1800 Ω
I_{RZ}: 210 ~ 7500 mA
R_{DC}: 2.95 mΩ ~ 1.91 Ω



WE-CMS

Z @ 25 MHz: 20 ~ 54 Ω
Z @ 100 MHz: 30 ~ 83 Ω
I_R: 17 ~ 21 A
R_{DC max}: 3 mΩ



WE-CBF

Z @ 100 MHz: 5 ~ 2700 Ω
I_{RZ}: 450 ~ 10000 mA
R_{DC max}: 0.003 mΩ ~ 1.5 Ω



WE-SUKW

Z @ 25 MHz: 272 ~ 425 Ω
Z @ 100 MHz: 416 ~ 580 Ω
I_R: 5 A
R_{DC max}: 11 ~ 12 mΩ



WE-CBF HF

Z @ 1 GHz: 180 ~ 1100 Ω
I_{RZ}: 250 ~ 1300 mA
R_{DC typ}: 0.13 ~ 1.2 Ω



WE-UKW

Z @ 25 MHz: 145 ~ 920 Ω
Z @ 100 MHz: 230 ~ 1240 Ω
I_R: 3 A



WE-MPSB

Z @ 100 MHz: 8 ~ 600 Ω
I_{RZ}: 2100 ~ 10500 mA
R_{DC typ}: 1.0 ~ 43 mΩ



WE-MLS

Z @ 25 MHz: 115 ~ 292 Ω
Z @ 100 MHz: 150 ~ 334 Ω
I_R: 4 A



WE-PBF

Z @ 25 MHz: 23 ~ 65 Ω
Z @ 100 MHz: 39 ~ 98 Ω
I_R: 14 ~ 18 A
R_{DC max}: 0.6 ~ 0.9 mΩ



WE-WAFB

Z @ 10 MHz: 20 ~ 65 Ω
Z @ 100 MHz: 70 ~ 130 Ω
I_R: 3 ~ 7 A



WE-PF

Z_{max}: 2900 ~ 15000 Ω
I_R: 4.5 ~ 10 A
R_{DC max}: 9 ~ 30 mΩ

FERRITES FOR CABLE ASSEMBLY



WE-STAR-BUENO

Z @ 25 MHz 1 turn: 120 ~ 180 Ω
Z @ 100 MHz 1 turn: 200 ~ 350 Ω
Cable Diameter: 2.5 ~ 8.5 mm



WE-STAR-TEC LFS

Z @ 1 MHz 1 turn: 20 ~ 94 Ω
Z @ 10 MHz 1 turn: 32 ~ 65 Ω
Cable Diameter: 3.5 ~ 25 mm



WE-STAR-TEC

Z @ 25 MHz 1 turn: 98 ~ 306 Ω
Z @ 100 MHz 1 turn: 182 ~ 525 Ω
Cable Diameter: 3.5 ~ 25 mm



WE-STAR-GAP

Z @ 25 MHz 1 turn: 28 ~ 35 Ω
Z @ 500 MHz 1 turn: 345 ~ 400 Ω
Cable Diameter: 4.5 ~ 12.5 mm



WE-STAR-RING

Z @ 25 MHz 1 turn: 55 ~ 83 Ω
Z @ 100 MHz 1 turn: 110 ~ 165 Ω
Cable Diameter: 8 ~ 27 mm



WE-STAR-FLAT

Z @ 25 MHz 1 turn: 42 ~ 97 Ω
Z @ 100 MHz 1 turn: 101 ~ 194 Ω
No. of Poles: 26 ~ 50



WE-STAR-CLIP

For the fixation of Snap Ferrite STAR-TEC (LFS), STAR-FIX (LFS) and STAR-GAP



WE-NCF

Z @ 25 MHz 1 turn: 48 ~ 100 Ω
Z @ 100 MHz 1 turn: 93 ~ 200 Ω
Cable Diameter: 7.8 ~ 26.5 mm

EMC COMPONENTS

FERRITES FOR CABLE ASSEMBLY



WE-SPLITRING

Z @ 25 MHz 1 turn: 98 ~ 306 Ω
Z @ 100 MHz 1 turn: 182 ~ 525 Ω
Cable Diameter: 3.5 ~ 25 mm



WE-SFA

Z @ 25 MHz 1 turn: 27 ~ 148 Ω
Z @ 100 MHz 1 turn: 57 ~ 267 Ω
No. of Poles: 10 ~ 64



WE-FLAT

Z @ 25 MHz 1 turn: 17 ~ 90 Ω
Z @ 100 MHz 1 turn: 42 ~ 166 Ω
Poles: 10 ~ 40
Version: Snap-On with adhesive tape



WE-FLAT Ferrite for Flexible Printed Circuit Boards

Z @ 25 MHz 1 turn: 7 ~ 71 Ω
Z @ 100 MHz 1 turn: 19 ~ 130 Ω
Cable Diameter: 4.7 ~ 52 mm
Version: round, square



WE-FCAC

Easy fixation for flat cores on ribbon cables



WE-TOF

Z @ 25 MHz 1 turn: 25 ~ 110 Ω
Z @ 100 MHz 1 turn: 37 ~ 205 Ω
Cable diameter: 3.0 ~ 55.3 mm



WE-AFB LFS

Z @ 1 MHz 1 turn: 7.48 ~ 130 Ω
Z @ 10 MHz 1 turn: 18.8 ~ 100 Ω
Cable diameter: 0.8 ~ 17.65 mm



WE-AFB

Z @ 25 MHz 1 turn: 30 ~ 300 Ω
Z @ 100 MHz 1 turn: 45 ~ 451 Ω
Cable diameter: 3.3 ~ 17.5 mm



WE-SAFB

Z @ 25 MHz 1 turn: 20 ~ 144 Ω
Z @ 100 MHz 1 turn: 40 ~ 278 Ω
Cable diameter: 0.55 ~ 4 mm



WE-RIB

Z @ 25 MHz 1 turn: 35 ~ 126 Ω
Z @ 100 MHz 1 turn: 91 ~ 260 Ω
Cable diameter: 0.8 ~ 3.5 mm

FILTER CHOKES



WE-MI

L: 0.047 ~ 33 μH
I_B: 3 ~ 300 mA
R_{DC}: 0.15 ~ 2.1 Ω



WE-SD

L: 2 ~ 10 μH
I_B: 2.5 ~ 15 A
R_{DC}: 1.7 ~ 33 mΩ



WE-FI

L: 8.2 ~ 860 μH
I_B: 0.9 ~ 9 A
R_{DC}: 0.01 ~ 0.4 Ω



WE-CMB

L: 0.5 ~ 39 mH
I_B: 0.3 ~ 35 A
R_{DC}: 2.3 ~ 3000 mΩ
Number of Windings: 2



WE-CMBNC

L: 0.4 ~ 190 mH
I_B: 0.6 ~ 38 A
R_{DC}: 1.1 ~ 1000 mΩ
Number of Windings: 2



WE-CMB HC

L: 0.175 ~ 0.7 mH
I_B: 5 ~ 10 mA
R_{DC}: 4 ~ 15 mΩ
Number of Windings: 2



WE-CMB HV

L: 0.7 ~ 4.7 mH
I_B: 6.8 ~ 21.5 A
R_{DC}: 3.8 ~ 44 mΩ
Number of Windings: 2



WE-CMB NiZn

L: 14 ~ 110 μH
I_B: 1.5 ~ 10 A
R_{DC}: 2.7 ~ 80 mΩ
Number of Windings: 2



WE-ExB

L: 47 ~ 1000 μH
I_B: 4.5 ~ 15 A
R_{DC}: 4.6 ~ 42 mΩ
Number of Windings: 2



WE-CMBH

L: 1 ~ 20 mH
I_B: 2 ~ 15 A
R_{DC}: 7.5 ~ 230 mΩ
Number of Windings: 2

COMMON MODE CHOKES POWER LINES



WE-LF

L: 0.4 ~ 50 mH
 I_B : 0.3 ~ 6 A
 R_{DC} : 0.02 ~ 2.6 Ω
 Number of Windings: 2



WE-LF SMD

L: 0.7 ~ 47 mH
 I_B : 0.4 ~ 5.25 A
 R_{DC} : 0.03 ~ 2.6 Ω
 Number of Windings: 2



WE-TFC

L: 1.8 ~ 25 mH
 I_B : 0.25 ~ 1 A
 $R_{DC\ max}$: 0.31 ~ 3.6 Ω
 Number of Windings: 2



WE-FC

L: 1.1 ~ 43 mH
 I_B : 0.4 ~ 2.65 A
 $R_{DC\ max}$: 0.08 ~ 2.88 Ω
 Number of Windings: 2



WE-FCL

L: 3.9 ~ 100 mH
 I_B : 1.25 ~ 5 A
 R_{DC} : 50 ~ 900 m Ω
 Number of Windings: 2



WE-LPCC

L: 120 ~ 450 μ H
 I_B : 9.5 ~ 23.5 A
 $R_{DC\ max}$: 1.4 ~ 9.6 m Ω
 Number of Windings: 2



WE-FCLP

L: 6 ~ 100 mH
 I_B : 0.5 ~ 2.4 A
 R_{DC} : 220 ~ 3470 m Ω
 Number of Windings: 2



WE-TPB

L: 0.52 ~ 12 mH
 I_B : 6 ~ 24 A
 R_{DC} : 3 ~ 65 m Ω
 Number of Windings: 3



WE-TPB HV

L: 0.2 ~ 208 mH
 I_B : 7.2 ~ 46 A
 R_{DC} : 1.6 ~ 85 m Ω
 Number of Windings: 3

COMMON MODE CHOKES SIGNAL LINES



WE-CNSW

Z @ 100 MHz: 22 ~ 8000 Ω
 I_B : 90 ~ 2000 mA
 R_{DC} : 0.05 ~ 5.5 Ω
 Number of Windings: 2



WE-CNSW HF

Z @ 100 MHz: 60 ~ 120 Ω
 I_B : 280 ~ 600 mA
 R_{DC} : 220 ~ 300 m Ω
 Number of Windings: 2



WE-CCMF

f_c : 8 ~ 12 GHz
 I_B : 300 mA
 Common mode Attenuation @ 2450 MHz: 20 ~ 30 dB



WE-CMDC

Z @ 100 MHz: 700 ~ 1500 Ω
 I_B : 4.5 ~ 8 A
 R_{DC} : 6 ~ 21 m Ω
 Number of Windings: 2



WE-SLM

L: 11 ~ 470 μ H
 I_B : 300 ~ 400 mA
 R_{DC} : 0.18 ~ 0.58 Ω
 Number of Windings: 2



WE-SL1

L: 10 ~ 330 μ H
 I_B : 300 mA
 R_{DC} : 0.16 ~ 0.3 Ω
 Number of Windings: 2



WE-SL2

L: 10 ~ 20000 μ H
 I_B : 200 ~ 1600 mA
 R_{DC} : 0.08 ~ 2.6 Ω
 Number of Windings: 2



WE-SL3

L: 20 ~ 100 μ H
 I_B : 450 ~ 700 mA
 R_{DC} : 0.14 ~ 0.45 Ω
 Number of Windings: 2 ~ 3



WE-SL5

L: 120 ~ 4700 μ H
 I_B : 350 ~ 2500 mA
 R_{DC} : 0.025 ~ 0.72 Ω
 Number of Windings: 2



WE-SL5 HC

L: 5 ~ 30 μ H
 I_B : 1.4 ~ 5 A
 R_{DC} : 0.0055 ~ 0.06 Ω
 Number of Windings: 2



WE-SL

L: 35 ~ 4700 μ H
 I_B : 200 ~ 2700 mA
 R_{DC} : 0.035 ~ 0.85 Ω
 Number of Windings: 2 ~ 4



WE-SCC

L: 1 ~ 1000 μ H
 I_B : 150 ~ 4750 mA
 R_{DC} : 0.01 ~ 4.3 Ω
 Number of Windings: 2



WE-UCF

L: 0.013 ~ 100 mH
 I_B : 0.15 ~ 10 A
 R_{DC} : 0.0027 ~ 8.5 Ω
 Number of Windings: 2

EMC COMPONENTS

ESD PROTECTION



WE-TVS Standard Series

Operating Voltage: 3.3 ~ 24 V_{DC}
 C_{min}: 12 ~ 1650 pF
 Channels: 1 ~ 5
 Size: DFN1610-2L ~ SOT23-6L



WE-TVS High Speed

Operating Voltage: 3.3 ~ 5 V_{DC}
 C_{min}: 1 ~ 3 pF
 Channels: 2+1 ~ 4+1
 Size: SC70-6L ~ SOT23-6L



WE-TVS Super Speed

Operating Voltage: 1.2 ~ 5 V_{DC}
 C_{typ}: 0.18 ~ 0.6 pF
 Channels: 2 ~ 8
 Size: DFN1210-6L ~ MSOP-10L



WE-VE ULC

Operating Voltage: 5 ~ 12 V_{DC}
 C_{typ}: 0.2 pF
 Size: 0402 ~ 0603



WE-VE

Operating Voltage: 5 ~ 26 V_{DC}
 C_{typ}: 1 ~ 100 pF
 Size: 0402 ~ 0805



WE-VE femtoF

Operating Voltage: 6 ~ 26 V_{DC}
 C_{typ}: 0.05 pF
 Size: 0402 ~ 0603



WE-VEA

Operating Voltage: 5 ~ 18 V_{DC}
 C_{typ}: 10 ~ 120 pF
 Size: 0508 ~ 0612

EMC SHIELDING SOLUTIONS



EMC Tapes

EMC tapes with copper tape, aluminum tape, conductive fabric
 Standard Roll Width: 5 ~ 50 mm



Board Level Shielding

WE-SHC & WE-SHC Seamless

Metal cabinets for board level shielding, ShieldDIY for prototyping, SMD & THT, frame & cover, one piece solution



EMC Gaskets (WE-CSGS, WE-EGS, WE-GS & WE-LT)

Contact spring gaskets, conductive elastomer gaskets, shielding gaskets.



Grounding (WE-SECF, WE-SMGS, WE-ST, WE-EEL)

SMD grounding contacts, grounding cables for earthing belts, cable shielding and metal clips



Magnetic Shielding WE-FAS, WE-FSFS, WE-CPU, WE-FAS TC

Absorber Sheets, Thermal Conductive & EMI Absorber Sheets, Flexible Ferrite Sheets, Ferrite Plates

SURGE PROTECTION



WE-VS

Operating Voltage: 2.5 ~ 60 V_{DC}
 Operating Voltage: 3.3 ~ 85 V_{AC}
 I_{peak}: 10 ~ 200 A
 W_{max}: 0.02 ~ 1.1 J
 Size: 0402 ~ 1206



WE-TVSP

Operating Voltage: 5 ~ 440 V_{DC}
 I_{peak} (10/1000 µs): 2.5 ~ 326 A
 P_{loss}: 400, 600, 1500, 3000 W
 Size: DO-214AC: SMAJ
 DO-214AA: SMBJ
 DO-214AB: SMCJ, SMDJ



WE-VD

Operating Voltage: 14 ~ 1000 V_{AC}
 Operating Voltage: 18 ~ 1465 V_{DC}
 I_{peak}: 100 ~ 10000 A
 W_{max}: 0.7 ~ 620 J
 Diameters: 5 ~ 20 mm



All EMC Components at a glance:

www.we-online.com/emc-components



Explore our application notes for EMC Components:

www.we-online.com/appnotes



Component libraries available for:

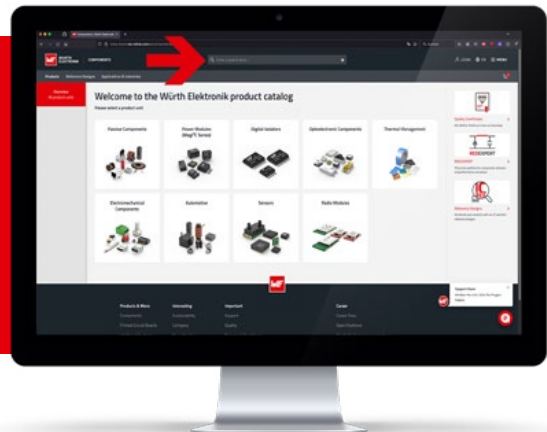
- PCB library: Altium Designer, EAGLE, Cadence OrCAD & Allegro, Zuken CAD-Star
 - S-Parameter & SPICE model: S-Parameter, LTspice, PSpice, Spectre
 - RF & microwave simulation models: Modelithics
- www.we-online.com/library

POWER MAGNETICS

























HOW TO FIND DETAILED PRODUCT INFORMATION?

VISIT WWW.WE-ONLINE.COM AND SEARCH FOR PRODUCT SERIES INFORMATION, E.G.:

WE-PD



SINGLE COIL POWER INDUCTORS

 <p>WE-PMI L: 0.11 ~ 10 μH I_{R2}: 650 ~ 4000 mA $R_{DC\ max}$: 8.75 ~ 625 mΩ I_{SAT}: 100 ~ 5000 mA</p>	 <p>EXTENDED WE-MAPI L: 0.033 ~ 47 μH I_{R2}: 0.55 ~ 33.5 A $R_{DC\ typ}$: 0.9 ~ 2090 mΩ I_{SAT}: 1.5 ~ 40 A</p>	 <p>WE-PD4 L: 0.47 ~ 10000 μH I_{R2}: 0.07 ~ 18 A R_{DC}: 0.002 ~ 39 Ω I_{SAT}: 14.25 A</p>
 <p>WE-PMCI L: 0.24 ~ 2.2 μH I_{R2}: 1000 ~ 5500 mA R_{DC}: 10 ~ 166 mΩ I_{SAT}: 1700 ~ 12000 mA</p>	 <p>WE-TPC L: 0.056 ~ 1500 μH I_{R2}: 0.08 ~ 8.5 A R_{DC}: 0.0035 ~ 9 Ω I_{SAT}: 0.05 ~ 10 A</p>	 <p>WE-HCI L: 0.13 ~ 82 μH I_{R2}: 3.5 ~ 41.5 A R_{DC}: 0.35 ~ 34.5 mΩ I_{SAT}: 4 ~ 65 A</p>
 <p>WE-GF L: 0.1 ~ 1000 μH I_{R2}: 30 ~ 450 mA $R_{DC\ max}$: 0.32 ~ 50 Ω</p>	 <p>WE-SPC L: 0.22 ~ 100 μH I_{R2}: 0.40 ~ 5.30 A R_{DC}: 0.014 ~ 1.133 Ω I_{SAT}: 0.68 ~ 13.5 A</p>	 <p>WE-HCC L: 0.22 ~ 10 μH I_{R2}: 4.4 ~ 27 A R_{DC}: 1.1 ~ 38.5 mΩ I_{SAT}: 7 ~ 85 A</p>
 <p>WE-GFH L: 1.0 ~ 220 μH I_{R2}: 160 ~ 1900 mA R_{DC}: 81 ~ 9126 mΩ</p>	 <p>WE-PD L: 0.47 ~ 2200 μH I_{R2}: 0.2 ~ 23.5 A R_{DC}: 0.003 ~ 9.44 Ω I_{SAT}: 0.18 ~ 26.4 A</p>	 <p>WE-HCF L: 0.7 ~ 680 μH I_{R2}: 4.8 ~ 56 A R_{DC}: 0.44 ~ 118.3 mΩ I_{SAT}: 3 ~ 125 A</p>
 <p>WE-LQ L: 1 ~ 2200 μH I_{R2}: 0.04 ~ 1.8 A R_{DC}: 0.08 ~ 47 Ω</p>	 <p>WE-PDF L: 0.22 ~ 27 μH I_{R2}: 4.3 ~ 19 A R_{DC}: 1.95 ~ 42.5 mΩ I_{SAT}: 3.1 ~ 32 A</p>	 <p>WE-HCFT L: 1 ~ 65 μH I_{R2}: 17.2 ~ 75 A R_{DC}: 0.34 ~ 13.13 mΩ I_{SAT}: 8.8 ~ 125 A</p>
 <p>WE-LQS L: 0.16 ~ 10000 μH I_{R2}: 0.1 ~ 8 A R_{DC}: 6 ~ 22800 mΩ I_{SAT}: 140 ~ 16000 mA</p>	 <p>WE-PD2SR L: 1.2 ~ 220 μH I_{R2}: 0.67 ~ 4.85 A $R_{DC\ typ}$: 8.5 ~ 743 mΩ I_{SAT}: 0.58 ~ 6 A</p>	 <p>WE-HIDA L: 8.2 ~ 22 μH I_{R2}: 5.7 ~ 19 A R_{DC}: 2.5 ~ 14.8 mΩ I_{SAT}: 6.5 ~ 58 A</p>
 <p>WE-LQSH L: 0.47 ~ 10 μH I_{R2}: 0.58 ~ 4.5 A R_{DC}: 18 ~ 680 mΩ I_{SAT}: 0.95 ~ 15.5 A</p>	 <p>WE-PD2 L: 1 ~ 2200 μH I_{R2}: 0.18 ~ 6 A R_{DC}: 0.007 ~ 4.4 Ω I_{SAT}: 0.18 ~ 11 A</p>	 <p>WE-LHMD L: 8.2 ~ 22 μH I_{R2}: 2 ~ 7 A R_{DC}: 16 ~ 104 mΩ I_{SAT}: 13 ~ 25 A</p>
 <p>WE-LQFS L: 1.0 ~ 470 μH I_{R2}: 0.26 ~ 4.47 A R_{DC}: 18 ~ 2336 mΩ I_{SAT}: 0.18 ~ 4.06 A</p>	 <p>WE-PD3 L: 1 ~ 1000 μH I_{R2}: 0.19 ~ 3.9 A R_{DC}: 0.027 ~ 3.2 Ω I_{SAT}: 0.02 ~ 8 A</p>	 <p>WE-HCM L: 0.025 ~ 1.5 μH I_{R2}: 23 ~ 70 A R_{DC}: 0.114 ~ 0.7 mΩ I_{SAT}: 8 ~ 125 A</p>

POWER MAGNETICS

SINGLE COIL POWER INDUCTORS

EXTENDED

WE-XHMI



L:	0.15 ~ 33 μ H
I _g :	4.7 ~ 20.8 A
R _{DC} :	1.32 ~ 42.3 m Ω
I _{SAT} :	4.9 ~ 58 A

EXTENDED

WE-LHMI



L:	0.1 ~ 100 μ H
I _g :	1 ~ 32.5 A
R _{DC} :	0.60 ~ 500 m Ω
I _{SAT} :	2 ~ 125 A

WE-FAMI



L:	3.0 ~ 22.0 μ H
I _g :	3.7 ~ 14.5 A
R _{DC} :	3.1 ~ 30.9 m Ω
I _{SAT} :	5.7 ~ 19.7 A

WE-TI




L:	1 ~ 68000 μ H
I _g :	0.05 ~ 8.5 A
R _{DC} :	0.006 ~ 90.8 Ω
I _{SAT} :	0.07 ~ 15 A

WE-TIS



L:	1.3 ~ 8200 μ H
I _g :	0.1 ~ 8.5 A
R _{DC} :	0.006 ~ 12.5 Ω
I _{SAT} :	0.05 ~ 14 A

WE-SI



L:	12 ~ 1619 μ H
I _g :	0.5 ~ 5 A
R _{DC} :	0.008 ~ 0.7 Ω
I _{SAT} :	0.5 ~ 6.9 A

WE-PD HV




L:	47 ~ 6800 μ H
I _g :	0.24 ~ 1.7 A
R _{DC} :	0.16 ~ 9.6 Ω
I _{SAT} :	0.2 ~ 2.3 A

WE-PD2 HV



L:	560 ~ 2200 μ H
I _g :	0.15 ~ 0.41 A
R _{DC} :	1.77 ~ 6 Ω
I _{SAT} :	0.2 ~ 0.41 A

WE-TI HV



L:	220 ~ 3300 μ H
I _g :	0.25 ~ 0.9 A
R _{DC} :	0.5 ~ 5.9 Ω
I _{SAT} :	0.27 ~ 1.3 A

WE-HEPC



L:	3.3 ~ 100 μ H
I _g :	0.8 ~ 2.5 A
R _{DC} :	0.05 ~ 0.8 Ω
I _{SAT} :	1.3 ~ 3.3 A

DUAL COIL POWER INDUCTORS

WE-EHPI



L ₁ :	7 ~ 25 μ H
L ₂ :	10000 ~ 70000 μ H
R _{DC1} :	0.085 ~ 0.2 Ω
R _{DC2} :	42 ~ 205 Ω

WE-TDC




L:	0.33 ~ 22 μ H
I _g :	0.7 ~ 4.5 A
R _{DC} :	0.0111 ~ 0.435 Ω

WE-DD



L:	1.3 ~ 470 μ H
I _g :	0.3 ~ 8.6 A
R _{DC} :	0.011 ~ 1.4 Ω

WE-DCT



L:	0.091 ~ 100 μ H
I _g :	1.1 ~ 14.5 A
R _{DC} :	2.8 ~ 265 m Ω
I _{SAT} :	1.1 ~ 14.5 A

WE-CFWI




L:	0.8 ~ 10 μ H
I _g :	11.5 ~ 28 A
R _{DC} :	1.6 ~ 13.9 m Ω
I _{SAT} :	14.25 A

WE-DPC



L:	1 ~ 100 μ H
I _g :	0.35 ~ 4.5 A
R _{DC} :	25 ~ 1990 m Ω
I _{SAT} :	14.25 A

WE-MTCI



L ₁ :	10 ~ 33 μ H
L ₂ :	22.5 ~ 297 μ H
R _{DC1} :	349 ~ 1466 m Ω
R _{DC2} :	408 ~ 3758 m Ω

WE-DPC HV



L:	1 ~ 47 μ H
I _g :	0.6 ~ 2.9 A
R _{DC} :	32 ~ 840 m Ω

WE-TDC HV



L:	4.7 ~ 33 μ H
I _g :	0.75 ~ 2.45 A
R _{DC} :	85 ~ 700 m Ω

WE-MCRI



L:	1 ~ 47 μ H
I _g :	1.5 ~ 17 A
R _{DC} :	4.5 ~ 312 m Ω


WIRELESS POWER TRANSMISSION

WE-WPCC Wireless Power Transmitter Coil




L:	2.8 ~ 24 μ H
Q:	30 ~ 220
I _g :	2.0 ~ 18 A
R _{DC} :	10 ~ 255 m Ω

WE-WPCC Wireless Power Array




L:	6.4 ~ 12.5 μ H
μ HQ:	100 ~ 145
I _g :	8.0 ~ 10.0 A
R _{DC} :	38 ~ 56 m Ω

WE-WPCC Wireless Power Receiver Coil



L:	1.4 ~ 47.0 μ H
Q:	10 ~ 50
I _g :	0.40 ~ 5.0 A
R _{DC} :	0.08 ~ 1200 Ω


WE-WPCC WPT / NFC Combination Coil



L:	L1 = 6.3 ~ 24 μ H L2 = 0.7 ~ 1.6 μ H
Q:	Q1 = 19 ~ 125 Q2 = 47 ~ 82
I _g :	IR1 = 6 ~ 7.5 A IR2 = 2.6 ~ 50 A
R _{DC} :	RDC1 = 0.048 ~ 0.4 Ω RDC2 = 0.03 ~ 0.1 Ω

PFC CHOKES

WE-PFC



L:	150 ~ 1800 μ H
I _g :	0.3 ~ 3.0 A
R _{DC1} :	78 ~ 1550 m Ω
R _{DC2} :	140 ~ 1200 m Ω

HIGH PERFORMANCE	1:1 HIGH VOLTAGE
CONSUMER	1:1 HIGH CURRENT
LOW PROFILE	HIGH VOLTAGE
HIGH CURRENT	1:N MULTI TURNS RATIO
SEPIC	THT INDUCTORS
CLASS D	ALL PURPOSE

POWER TRANSFORMERS



WE-FLEX

suitable for all switch mode power supply topologies like: Buck-Converter, Boost-Converter, SEPIC-Converter, Flyback-Converter, Forward-Converter and Push-Pull-Converter



WE-UNIT

U_i: 85 ~ 265 Vac
U_{O1}: 5 ~ 24 V
I_{O1}: 0.13 ~ 2.0 A



WE-FLEX+

suitable for all switch mode power supply topologies like: Buck-Converter, Boost-Converter, SEPIC-Converter, Flyback-Converter, Forward-Converter and Push-Pull-Converter



WE-GDT

L: 260 ~ 650 µH
R_{DC1}: 520 ~ 1200 mΩ
R_{DC2}: 150 ~ 600 mΩ
R_{DC3}: 170 ~ 600 mΩ



WE-FLEX HV

suitable for all switch mode power supply topologies like: Buck-Converter, Boost-Converter, SEPIC-Converter, Flyback-Converter, Forward-Converter and Push-Pull-Converter



WE-GDTI

L: 735 ~ 1800 µH
R_{DC1}: 1000 ~ 1600 mΩ
R_{DC2}: 600 ~ 1300 mΩ
R_{DC3}: 650 ~ 1300 mΩ



WE-PoE

suitable for Power over Ethernet ICs



WE-CST

for Switch Mode Power Supply and AC current detection



WE-PoE+

Compliant with the 30W PoE+ objectives of IEEE802.3at

Suitable for PoE+ powered devices



WE-AGDT

Input Voltage: 9 - 18 - 18 - 36 V
Output Unipolar: 15 - 20 V
Output Bipolar: +15 / -4 V
Interwinding Capacitance: 6.8 pF
Total Output Power: Up to 6 W



WE-PoEH

- PoE and PoE+ powered devices
- Flyback or Forward Transformer
- designed for 12 V, 24 V or 48 V input of Switching Mode Power Supply



WE-FB

for LT3573, LT3751, LT3574, LT3575, LT3748



WE-UOST

U_i: 85 ~ 265 V_{ac}
U_{O1}: 5 ~ 24 V
I_{O1}: 0.56 ~ 3.0 A



WE-LLCR

U_i: 360 ~ 400 V_{dc}
U_o: 12, 24 or 48 V_{dc}
P: 150, 200 or 250 W



All Power Magnetic Components at a glance:

www.we-online.com/power-magnetics



Explore our application notes for Power Magnetics:

www.we-online.com/appnotes



Component libraries available for:

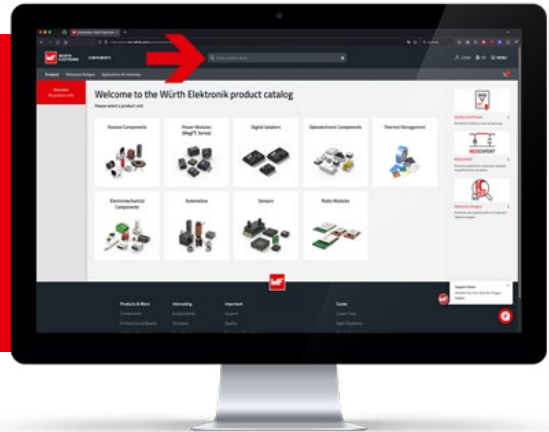
- PCB library: Altium Designer, EAGLE, Cadence OrCAD & Allegro, Zuken CAD-Star
 - S-Parameter & SPICE model: S-Parameter, LTSpice, PSpice, Spectre
 - RF & microwave simulation models: Modelithics
- www.we-online.com/library

SIGNAL & COMMUNICATIONS

HOW TO FIND DETAILED PRODUCT INFORMATION?

VISIT WWW.WE-ONLINE.COM AND SEARCH FOR PRODUCT SERIES INFORMATION, E.G.:

WE-ASI



AS-INTERFACE INDUCTOR



WE-ASI

L: 3 ~ 18.0 mH
 I_R : 0.08 ~ 0.5 A
 R_{DC} : 2.9 ~ 57.7 Ω

LAN TRANSFORMERS



WE-LAN

Data rate: 10/100/1000/2.5G/5GBASE-T
 Ports: 1 ~ 4
 Temp. Range: -40 up to +125 °C
 PoE: PoE (up to 2 A per center tap)



WE-LAN 10G

Data rate: 10GBASE-T
 Ports: 1
 Temp. Range: -40 up to +85 °C
 PoE: PoE (up to 1.5 A per center tap)



WE-LAN AQ

Data rate: 10/100/1000BASE-T
 Ports: 1
 Temp. Range: -40 up to +85 °C
 PoE: PoE (up to 720 mA per center tap)



WE-RJ45 LAN

Data rate: 10/100/1000BASE-T
 Ports: 1x1 ~ 1x2 ~ 2x4
 Temp. Range: -40 up to +85 °C
 PoE: PoE (up to 1 A per center tap)



WE-RJ45 LAN 10G

Data rate: 10GBASE-T
 Ports: 1
 Temp. Range: -40 up to +85 °C
 PoE: 350 ~ 1000 mA



WE-STST

Data rate (Standard Ethernet): 10/100/1000/10GBASE-T
 Data rate (Single Pair Ethernet): 10/100/1000BASE-T1
 Temp. Range: -40 up to +105 °C
 PoE: PoE (up to 600 mA)



WE-LANMX

Data rate: 10/100BASE-T
 Code: D
 Temp. Range: -40 up to +85 °C
 PoE: non-PoE

FILTER SOLUTIONS



WE-EPLE

USB-A connector with integrated circuit protection device and EMI noise reduction

EXTENDED



WE-BMS

Working voltage: 1000 ~ 1500 V_{DC}
 Temp. Range: -40 up to +125 °C
 Creepage: 4 to 15 mm
 Qualification: AEC-Q200

NEW



WE-PLC

Insulation Test Voltage: 4500 V_{AC}
 Ports: 1
 Temp. Range: -40 up to +125 °C



D-SUB Filter Connectors

Bent 90°, solder cup, solder pin straight, filter adapter

RF INDUCTORS



WE-KI

L ($\pm 2\%$ or $\pm 5\%$): 1 ~ 1800 nH
 Q: 13 ~ 60
 SRF: 188 ~ 12500 MHz
 I_{RMS} : 100 ~ 1360 mA
 Sizes: 0402, 0603, 0805, 1008



WE-KI HC

L ($\pm 2\%$): 1 ~ 390 nH
 Q: 10 ~ 46
 SRF: 880 ~ 16000 MHz
 I_{RMS} : 170 ~ 2300 mA
 Sizes: 0402, 0603



WE-RFI

L ($\pm 5\%$): 0.47 ~ 47 μ H
 Q: 15 ~ 45
 SRF: 17 ~ 375 MHz
 I_{RMS} : 45 ~ 500 mA
 Sizes: 0805, 1008



WE-RFH

L ($\pm 5\%$): 0.47 ~ 10 μ H
 Q: 15 ~ 45
 SRF: 40 ~ 450 MHz
 I_{RMS} : 300 ~ 760 mA
 Sizes: 1008



WE-TCI

L (± 0.1 nH or 2 %): 1 ~ 27 nH
 Q: 8 ~ 13
 SRF: 2800 ~ 9000 MHz
 I_{RMS} : 75 ~ 700 mA
 Sizes: 0201, 0402



WE-MK

L ($\pm 2\%$ or $\pm 5\%$): 1 ~ 470 nH
 Q: 4 ~ 18
 SRF: 300 ~ 10000 MHz
 I_{RMS} : 110 ~ 1300 mA
 Sizes: 0201, 0402, 0603, 0805



WE-CAIR

L ($\pm 2\%$ or $\pm 5\%$): 1.65 ~ 538 nH
 Q: 100 ~ 140
 SRF: 0.49 ~ 12.5 GHz
 I_{RMS} : 1.5 ~ 4 A
 Sizes: 1322, 1340, 3136, 3168, 4248, 5910



WE-AC HC

L ($\pm 20\%$): 22 ~ 146 nH
 Q_{typ} : 163 ~ 280
 S_{RFtyp} : 332 ~ 867 MHz
 I_{RMS} : 19 ~ 40 A
 Sizes: 1010, 1212

SIGNAL FILTERS



WE-LPF

Low-Pass Filter
 Frequency Range: 902 ~ 5875 MHz
 Sizes: 0603, 0805



WE-BPF

Band-Pass Filter
 Frequency Range: 2400 ~ 5920 MHz
 Sizes: 0805, 1008

BALUN



WE-BAL

Balun
 Frequency Range: 2400 ~ 5875 MHz
 Sizes: 0603, 0805

ANTENNAS



WE-MCA

Multilayer Chip Antenna
 Frequency Range: 423 ~ 5875 MHz



All Signal & Communications
 Components at a glance:
www.we-online.com/signal-com



Explore our application notes for
 Signal & Communications:
www.we-online.com/appnotes



Component libraries available for:

- PCB library: Altium Designer, EAGLE, Cadence OrCAD & Allegro, Zuken CAD-Star
- S-Parameter & SPICE model: S-Parameter, LTSpice, PSpice, Spectre
- RF & microwave simulation models: Modelithics

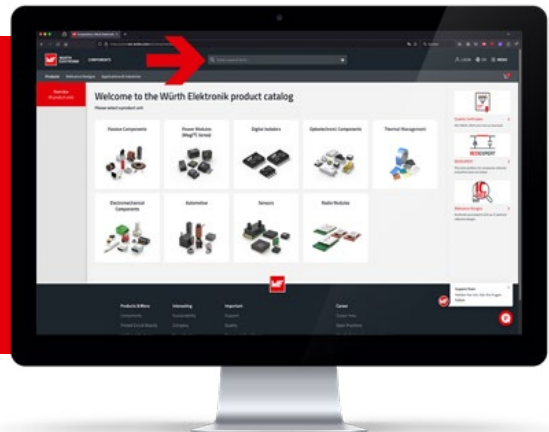
www.we-online.com/library

QUARTZ & OSCILLATORS

HOW TO FIND DETAILED PRODUCT INFORMATION?

VISIT WWW.WE-ONLINE.COM AND SEARCH FOR PRODUCT SERIES INFORMATION, E.G.:

WE-XTAL



QUARTZ CRYSTALS



WE-XTAL

Frequency: 1.8432 – 50 MHz
 Tolerance: $\pm 7 - \pm 50$ ppm
 Stability: $\pm 10 - \pm 100$ ppm
 Load Capacitance: 5 – 30 pF
 Size: 1.2 x 1.0 mm – 13.4 x 4.9 mm



WE-XTAL (Watch)

Frequency: 32.7680 kHz
 Load Capacitance: 4 pF – 12.5 pF
 Size: 1.2 x 1.0 mm – 9.5 x 2.54 mm

CRYSTAL OSCILLATORS



WE-SPXO

Frequency: 32.768 kHz,
 3.6864 – 156.25 MHz
 Stability: ± 25 ppm – ± 100 ppm
 Supply Voltage: 1.8 V – 5.0 V
 Output Logic: CMOS, HCMOS,
 HCMOS/TTL, LVDS, LVPECL
 Size: 2.0 x 1.6 mm – 7.0 x 5.0 mm



All Frequency Products at a glance:
www.we-online.com/frequency-products



Component libraries available for:

- PCB library: Altium Designer, EAGLE, Cadence OrCAD & Allegro, Zuken CAD-Star
- S-Parameter & SPICE model: S-Parameter, LTSpice, PSpice, Spectre
- RF & microwave simulation models: Modelithics

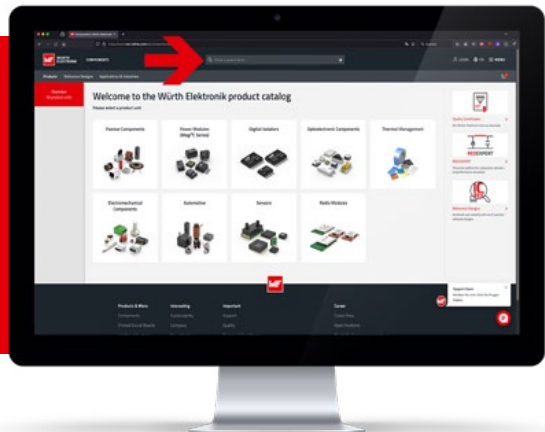
www.we-online.com/library

CAPACITORS

HOW TO FIND DETAILED PRODUCT INFORMATION?

VISIT WWW.WE-ONLINE.COM AND SEARCH FOR PRODUCT SERIES INFORMATION, E.G.:

WCAP-ATG8



ALUMINUM ELECTROLYTIC CAPACITORS RADIAL THT



WCAP-ATG8
General Purpose +85 °C
C: 0.47 – 33000 µF
UR: 10 – 400 V_{DC}
Temp.: -40 °C or -25 °C up to +85 °C
Endurance: 2000 h



WCAP-ATG5
General Purpose +105 °C
C: 0.47 – 18000 µF
U_R: 10 – 400 V_{DC}
Temp.: -40 °C or -25 °C up to +105 °C
Endurance: 2000 h



WCAP-AT1H
Long Life
C: 6.8 – 3300 µF
U_R: 10 – 450 V_{DC}
Temp.: -40 °C or -25 °C up to +105 °C
Endurance: 5000 – 10000 h



WCAP-ATET
High Temperature +125 °C
C: 1.0 – 1000 µF
U_R: 10 – 350 V_{DC}
Temp.: -40 °C or -25 °C up to +125 °C
Endurance: 1000 – 3000 h



WCAP-ATLI
Low Impedance
C: 4.7 – 6800 µF
U_R: 10 – 100 V_{DC}
Temp.: -55 °C up to +105 °C
Endurance: 2000 – 5000 h



WCAP-ATUL
Low Leakage & Long Life
C: 22 – 10000 µF
U_R: 10 – 100 V_{DC}
Temp.: -40 °C up to +105 °C
Endurance: 4000 – 10000 h



WCAP-ATLL
Long Life
C: 0.47 – 6800 µF
U_R: 10 – 50 V_{DC}
Temp.: -55 °C up to +105 °C
Endurance: 4000 – 10000 h

ALUMINUM ELECTROLYTIC CAPACITORS V-CHIP SMT



WCAP-ASLI
Low Impedance
C: 0.47 – 6800 µF
UR: 6.3 – 100 V_{DC}
Temp.: -55 °C up to +105 °C
Endurance: 2000 – 5000 h



WCAP-ASLL
Low Impedance & Long Life
C: 1.0 – 6800 µF
U_R: 6.3 – 450 V_{DC}
Temp.: -55 °C or -40 °C up to +105 °C
Endurance: 2000 – 5000 h



WCAP-ASLU
Low Leakage Current
C: 0.47 – 330 µF
U_R: 6.3 – 63 V_{DC}
Temp.: -40 °C up to +85 °C
Endurance: 1000 – 2000 h



WCAP-ASNP
Non-Polar
C: 0.47 – 560 µF
U_R: 6.3 – 50 V_{DC}
Temp.: -40 °C up to +85 °C
Endurance: 2000 h



WCAP-AS5H
Long Life
C: 0.47 – 1000 µF
U_R: 6.3 – 50 V_{DC}
Temp.: -55 °C or -40 °C up to +105 °C
Endurance: 5000 h

ALUMINUM ELECTROLYTIC CAPACITORS SNAP-IN



WCAP-AIG8
General Purpose +85 °C
C: 47 – 6800 µF
UR: 63 – 450 V_{DC}
Temp.: -40 °C or -25 °C up to +85 °C
Endurance: 2000 h



WCAP-AIE8
Long Life
C: 68 – 6800 µF
U_R: 63 – 450 V_{DC}
Temp.: -40 °C or -25 °C up to +105 °C
Endurance: 3000 h



WCAP-AIG5
General Purpose +105 °C
C: 33 – 10000 µF
U_R: 63 – 450 V_{DC}
Temp.: -40 °C or -25 °C up to +105 °C
Endurance: 2000 h



WCAP-AI3H
Long Life
C: 68 – 4700 µF
U_R: 63 – 450 V_{DC}
Temp.: -40 °C or -25 °C up to +105 °C
Endurance: 3000 – 4000 h

CAPACITORS

ALUMINIUM POLYMER CAPACITORS RADIAL THT



WCAP-PTG5
General Purpose +105 °C
C: 39 – 2000 µF
U_R: 6.3 – 25 V_{DC}
Temp. Range: -55 °C up to +105 °C
Endurance: 2000 h



WCAP-PTHR
Low ESR & High Voltage
C: 10 – 150 µF
U_R: 35 – 100 V_{DC}
Temp. Range: -55 °C up to +105 °C
Endurance: 2000 h



WCAP-PTHT
High Temperature +125 °C
C: 22 – 2000 µF
U_R: 6.3 – 50 V_{DC}
Temp. Range: -55 °C up to +125 °C
Endurance: 2000 h



WCAP-PT5H
Long Life
C: 22 – 2000 µF
U_R: 6.3 – 35 V_{DC}
Temp. Range: -55 °C up to +105 °C
Endurance: 5000 h

ALUMINIUM POLYMER CAPACITORS V-CHIP SMT



WCAP-PSLC
Large Capacitance
C: 10 – 2000 µF
U_R: 6.3 – 100 V_{DC}
Temp. Range: -55 °C up to +105 °C
Endurance: 2000 h



WCAP-PSLP
Low Profile
C: 4.7 – 390 µF
U_R: 6.3 – 100 V_{DC}
Temp. Range: -55 °C up to +105 °C
Endurance: 2000 h



WCAP-PSHP
High Ripple Current
C: 6.8 – 1200 µF
U_R: 6.3 – 100 V_{DC}
Temp. Range: -55 °C up to +105 °C
Endurance: 2000 – 5000 h

ALUMINIUM POLYMER CAPACITORS H-CHIP SMT DIELECTRIC: POLYPROPYLENE



WCAP-PHGP
General Purpose
C: 100 – 560 µF
U_R: 2 – 6.3 V_{DC}
Temp. Range: -55 °C up to +105 °C
Endurance: 2000 h



WCAP-PHLE
Low ESR
C: 100 – 560 µF
U_R: 2 – 6.3 V_{DC}
Temp. Range: -55 °C up to +105 °C
Endurance: 2000 h



WCAP-PHSE
Super Low ESR
C: 330 – 560 µF
U_R: 2 – 2.5 V_{DC}
Temp. Range: -55 °C up to +105 °C
Endurance: 2000 h

ALUMINIUM HYBRID POLYMER CAPACITORS RADIAL THT

NEW



WCAP-HTG5
General Purpose
C: 10 – 470 µF
U_R: 16 – 100 V_{DC}
Temp. Range: -55 °C up to +105 °C
Endurance: 5000 – 10000 h

NEW



WCAP-HTAH
High Temperature
C: 10 – 560 µF
U_R: 16 – 100 V_{DC}
Temp. Range: -55 °C up to +125 °C
Endurance: 2000 – 4000 h

MLCCS – MULTILAYER CERAMIC CHIP CAPACITORS SMT-CHIP



WCAP-CSGP
General Purpose
C: 0.5 pF – 100 µF
U_R: 6.3 – 100 V_{DC}
Ceramic: NPO, X7R, X5R



WCAP-CSMH
Mid and High Voltage
C: 10 pF – 2.2 µF
U_R: 200 – 3.000 V_{DC}
Ceramic: NPO, X7R



WCAP-CSRF
High Frequency
C: 0.2 pF – 33 pF
U_R: 25 – 50 V_{DC}
Ceramic: NPO



WCAP-SSST
Soft Termination
C: 220 pF – 2.2 µF
U_R: 16 – 2.000 V_{DC}
Ceramic: X7R

DC FILM CAPACITORS BOXED THT



WCAP-FTBP Boxed Type
Metallized Polypropylene
C: 33 nF – 6.8 µF
U_R: 160 – 630 V_{DC}
Pitch: 7.5 / 10.0 / 15.0 / 22.5 / 27.5 mm
Dielectric: Polypropylene



WCAP-FTBE Boxed Type
Metallized Polyester
C: 10 nF – 6.8 µF
U_R: 100 – 1.000 V_{DC}
Pitch: 7.5 / 10.0 / 15.0 / 22.5 / 27.5 / 37.5 mm
Dielectric: Polyester



WCAP-FTDB
DC-Link (MKP)
C: 1 – 75 µF
U_R: 500 – 1.200 V_{DC}
Pitch: 27.5 / 37.5 / 52.5 mm

ALUMINIUM HYBRID POLYMER CAPACITORS V-CHIP SMT

NEW



WCAP-HSG5
General Purpose
C: 10 – 560 µF
U_R: 16 – 100 V_{DC}
Temp. Range: -55 °C up to +105 °C
Endurance: 10000 h

NEW



WCAP-HSAH
High Temperature
C: 10 – 800 µF
U_R: 16 – 100 V_{DC}
Temp. Range: -55 °C up to +125 °C
Endurance: 4000 h

**SAFETY CAPACITORS (X/Y)
FILM CAPACITORS
BOXED THT**



**WCAP-FTXX
X2-Capacitors**

C: 5.6 nF – 6.8 μF
 U_R : 310 V_{AC}
 Pitch: 7.5 / 10.0 / 12.5 / 15.0 / 22.5 /
 27.5 / 37.5 mm
 Safety class: X2



**WCAP-FTX2
X2-Capacitors**

C: 5.6 nF – 6.8 μF
 U_R : 275 V_{AC}
 Pitch: 7.5 / 10.0 / 12.5 / 15.0 / 22.5 /
 27.5 / 37.5 mm
 Safety class: X2



**WCAP-FTXH
THB X2-Capacitors**

C: 33 nF – 10 μF
 U_R : 310 V_{AC}
 Pitch: 15 / 22.5 / 27.5 / 37.5 mm
 Safety class: X2

**SUPERCAPACITORS
(EDLCS)**



**WCAP-STSC
Standard Cylindrical
(Radial THT)**

C: 3 – 50 F
 U_R : 2.7 V_{DC}
 Temp. Range: -40 °C up to +65 °C



**WCAP-SISC
Standard Cylindrical
(Snap-In)**

C: 100 – 350 F
 U_R : 2.7 V
 Temp. Range: -40 °C up to +65 °C

**SAFETY CAPACITORS (X/Y)
MLCCS
SMT-CHIP**



**WCAP-CSSA
Safety Capacitors**

C: 33 pF – 4.7 nF
 U_R : 250 V_{AC}
 Ceramic: NPO, X7R
 Safety class: X1 / Y2, X2

NEW



Due to the various and different demands we offer screw capacitors as a customer-specific solution.



All Capacitors at a glance
www.we-online.com/capacitors



Request your customized screw capacitors now:
www.we-online.com/screwcaps



Component libraries available for:

- PCB library: Altium Designer, EAGLE, Cadence OrCAD & Allegro, Zuken CAD-Star
- S-Parameter & SPICE model: S-Parameter, LTSpice, PSpice, Spectre
- RF & microwave simulation models: Modelithics

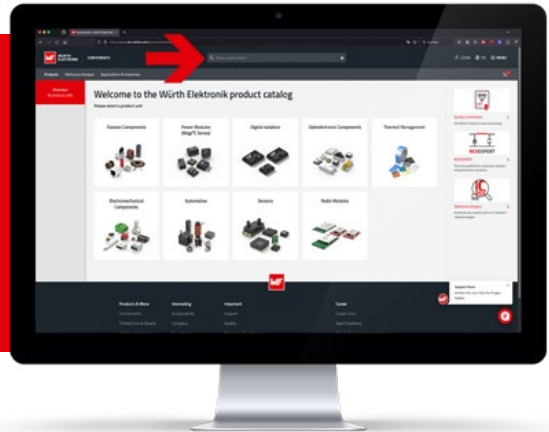
www.we-online.com/library

RESISTORS

HOW TO FIND DETAILED PRODUCT INFORMATION?

VISIT WWW.WE-ONLINE.COM AND SEARCH FOR PRODUCT SERIES INFORMATION, E.G.:

WRIS-PSMB



METAL PLATE RESISTORS



WRIS-PSMB

Enhanced Current Sensing

R: 5 mΩ – 10 mΩ
 R_{Tol} : ±1 %
 P: 0.33 W up to 1 W
 TCR: ±100 ppm/°C
 Temp. Range: -55 °C up to +155 °C



WRIS-PSMC

High Power Current Sensing

R: 2 mΩ – 10 mΩ
 R_{Tol} : ±1 % / ±5 %
 P: 2 W
 TCR: ±100 ppm/°C
 Temp. Range: -55 °C up to +155 °C

THICK FILM RESISTORS



WRIS-KSKE

General Purpose Current Sensing

R: 50 mΩ – 10 Ω
 R_{Tol} : ±1 %
 P: 0.125 W up to 1 W
 TCR: ±100 / +200 / +250 / +300 ppm/°C
 Temp. Range: -55 °C up to +155 °C



WRIS-KWKB

High Power

R: 2.2 Ω – 18 kΩ
 R_{Tol} : ±1 % / ±5 %
 P: 0.75 W up to 2 W
 TCR: ±200 ppm/°C
 Temp. Range: -55 °C up to +155 °C



WRIS-KWKH

High Power Current Sensing

R: 100 mΩ – 620 mΩ
 R_{Tol} : ±1 % / ±5 %
 P: 1 W
 TCR: +200 / +250 / +350 ppm/°C
 Temp. Range: -55 °C up to +155 °C



WRIS-RSKS

R: 0 Ω, 10 Ω – 10 mΩ
 R_{Tol} : +0.05 Ω / ±1 % / ±5 %
 P: 62.5 mW – 0.5 W
 TCR: ±100 ppm/°C / ±200 ppm/°C
 -200 ~ +400 ppm/°C
 Temp. Range: -55 °C up to +155 °C



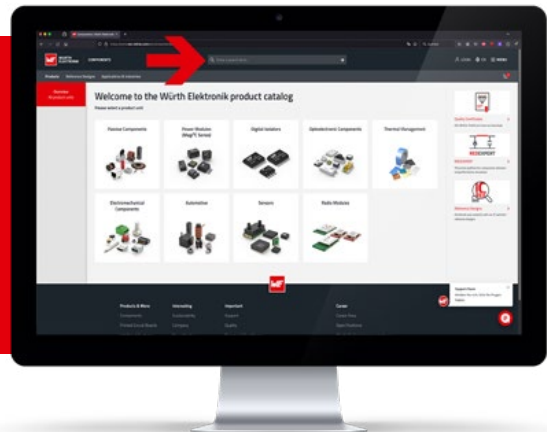
All resistors at a glance:
www.we-online.com/resistors

OPTOELECTRONICS

HOW TO FIND DETAILED PRODUCT INFORMATION?

VISIT WWW.WE-ONLINE.COM AND SEARCH FOR PRODUCT SERIES INFORMATION, E.G.:

WL-SMCC



VISIBLE LEDS

CHIP LEDS



**WL-SMCC SMD Mono-color
Chip LED Compact**
Size: 0402, 0603
 $\lambda_{\text{DOM typ}}$: 470 – 630 nm
 $I_V \text{ typ}$: 50 – 800 mcd
 $V_F \text{ typ}$: 2.0 – 3.2 V
Emitting color: Super Red, Red, Amber, Yellow, Bright Green, Green, Blue



**WL-SBCC SMD Bi-Color
Chip LED Compact**
Size: 0603
 $\lambda_{\text{DOM typ}}$: 570 – 625 nm
 $I_V \text{ typ}$: 30 – 60 mcd
 $V_F \text{ typ}$: 2 V
Emitting color: Red/Bright Green



**WL-SFCC SMD Full-color
Chip LED Compact**
Size: 0404
 $\lambda_{\text{DOM typ}}$: 470 – 621 nm
 $I_V \text{ typ}$: 50 – 180 mcd
 $V_F \text{ typ}$: 2 – 2.8 V
Emitting color: Red, Green, Blue



**WL-SMCW SMD Mono-color
Chip LED Waterclear**
Size: 0603, 0805, 1206
 $\lambda_{\text{DOM typ}}$: 470 – 630 nm
 $I_V \text{ typ}$: 40 – 1600 mcd
 $V_F \text{ typ}$: 1.9 – 3.3 V
Emitting color: Super Red, Red, Amber, Yellow, Bright Green, Green, Blue



**WL-SMCD SMD Mono-color
Chip LED Diffused**
Size: 0603
 $\lambda_{\text{DOM typ}}$: 470 – 630 nm
 $I_V \text{ typ}$: 60 – 430 mcd
 $V_F \text{ typ}$: 2.0 – 3.2 V
Emitting color: Super Red, Red, Yellow, Bright Green, Green, Blue



**WL-SBCD SMD Bi-color
Chip LED Diffused**
Size: 0606, 0805
 $\lambda_{\text{DOM typ}}$: 573 – 624 nm
 $I_V \text{ typ}$: 60 – 18 mcd
 $V_F \text{ typ}$: 2 – 3.3 V
Emitting color: Red, Super Red, Green, Bright Green, Yellow



**WL-SBCW SMD Bi-color
Chip LED Waterclear**
Size: 0606, 1210
 $\lambda_{\text{DOM typ}}$: 520 – 630 nm
 $I_V \text{ typ}$: 30 – 560 mcd
 $V_F \text{ typ}$: 2 – 3.2 V
Emitting color: Super Red/Bright Green, Yellow/Bright Green, Red, Green



**WL-SFCW SMD Full-color
Chip LED Waterclear**
Size: 0606, 0805, 1206, 1210
 $\lambda_{\text{DOM typ}}$: 470 – 624 nm
 $I_V \text{ typ}$: 70 – 360 mcd
 $V_F \text{ typ}$: 1.9 – 3.3 V
Emitting color: Red, Green, Blue



**WL-SFCD SMD Full-color
Chip LED Diffused**
Size: 0606, 0805, 1210
 $\lambda_{\text{DOM typ}}$: 470 – 624 nm
 $I_V \text{ typ}$: 70 – 900 mcd
 $V_F \text{ typ}$: 2 – 3.3 V
Emitting color: Red, Green, Blue



**WL-SMSW SMD Mono-color
Side view Waterclear**
Size: 0603, 3014, 1204
 $\lambda_{\text{DOM typ}}$: 470 – 624 nm
 $I_V \text{ typ}$: 50 – 600 mcd
 $V_F \text{ typ}$: 2 – 3.4 V
Emitting color: Red, Yellow, Bright Green, Green, Blue



**WL-SBSW SMD Bi-color
Side view Waterclear**
Size: 1204
 $\lambda_{\text{DOM typ}}$: 525 – 624 nm
 $I_V \text{ typ}$: 30 – 160 mcd
 $V_F \text{ typ}$: 2 – 3.3 V
Emitting color: Red/Bright Green, Red/Green



**WL-SFSW SMD Full-color
Side view Waterclear**
Size: 1204, 1206
 $\lambda_{\text{DOM typ}}$: 465 – 622 nm
 $I_V \text{ typ}$: 140 – 850 mcd
 $V_F \text{ typ}$: 2 – 3 V
Emitting color: Red, Green, Blue

OPTOELECTRONICS

VISIBLE LEDs

CHIP LED REVERSE MOUNT



**WL-SMRW SMD Mono-color
Reverse mount Waterclear**
Size: 1205 (rectangular),
1206 (rectangular, cylindrical, dome)
 $\lambda_{\text{DOM typ}}$: 470 – 630 nm
 $I_{\text{V typ}}$: 30 – 2200 mcd
 $V_{\text{F typ}}$: 2 – 3.3 V
Emitting color: Super Red, Red, Amber,
Yellow, Bright Green, Green, Blue



**WL-SMRD SMD Mono-color
Reverse mount Diffused**
Size: 1205
 $\lambda_{\text{DOM typ}}$: 470 – 624 nm
 $I_{\text{V typ}}$: 40 – 200 mcd
 $V_{\text{F typ}}$: 2 – 3.3 V
Emitting color: Red, Yellow, Bright
Green, Green, Blue



**WL-SBRW SMD Bi-color
Reverse mount Waterclear**
Size: 1205
 $\lambda_{\text{DOM typ}}$: 470 – 624 nm
 $I_{\text{V typ}}$: 45 – 285 mcd
 $V_{\text{F typ}}$: 2 – 3.3 V
Emitting color: Red/Green, Red/Bright
Green, Red/Blue, Yellow/Bright Green



**WL-SFRW SMD Full-color
Reverse mount Waterclear**
Size: 1205, 1206
 $\lambda_{\text{DOM typ}}$: 470 – 624 nm
 $I_{\text{V typ}}$: 70 – 280 mcd
 $V_{\text{F typ}}$: 2 – 3.3 V
Emitting color: Red, Green, Blue

TOP LED



**WL-SMTW SMD Mono-color
TOP LED Waterclear**
Size: 2214, 3020, 2835, 3528, 5050
 $\lambda_{\text{DOM typ}}$: 465 – 636 nm
 $I_{\text{V typ}}$: 70 – 3500 mcd
 $V_{\text{F typ}}$: 2 – 3.2 V
Emitting color: Super Red, Red, Amber,
Yellow, Bright Green, Green, Blue



**WL-SMTD Mono-color
TOP LED Diffused**
Size: 3528
 $\lambda_{\text{DOM typ}}$: 470 – 630 nm
 $I_{\text{V typ}}$: 3500 – 50000 mcd
 $V_{\text{F typ}}$: 2.4 – 3.4 V
Emitting color: Super Red, Red,
Yellow, Green, Blue



**WL-SBTW SMD Bi-color
TOP LED Waterclear**
Size: 3528
 $\lambda_{\text{DOM typ}}$: 470 – 625 nm
 $I_{\text{V typ}}$: 60 – 260 mcd
 $V_{\text{F typ}}$: 2 – 3.2 V
Emitting color: Red/Blue, Red/Bright
Green, Yellow/Blue, Yellow/Bright Green



**WL-SFTW SMD Full-color
TOP LED Waterclear**
Size: 3528, 5050
 $\lambda_{\text{DOM typ}}$: 470 – 625 nm
 $I_{\text{V typ}}$: 230 – 1700 mcd
 $V_{\text{F typ}}$: 2 – 3.2 V
Emitting color: Red, Green, Blue



**WL-SFTD SMD Full-color
TOP LED Diffused**
Size: 1616, 2022, 2828, 3535
 $\lambda_{\text{DOM typ}}$: 470 – 625 nm
 $I_{\text{V typ}}$: 400 – 1900 mcd
 $V_{\text{F typ}}$: 2 – 3.2 V
Emitting color: Red, Green, Blue

WHITE LEDs

TOP LED



**WL-SWTP SMD White
Top view PLCC**
Size: 3014, 3022, 3030, 5630
CCT: 2700 – 6000 K
 $\Phi_{\text{V typ}}$: 7 – 39 lm
 $V_{\text{F typ}}$: 2.8 – 3.2 V
Emitting color: Sunrise, Warm White,
Moonlight, Daylight, Cool White

HIGH POWER CERAMIC



**WL-SWTC SMD White
Top view Ceramic LED**
Size: 3535
CCT: 4000 – 6000 K
 $\Phi_{\text{V typ}}$: 121 – 135 lm
 $V_{\text{F typ}}$: 3.2 V
Emitting color: Moonlight, Daylight,
Cool White

ULTRAVIOLET LEDs

HIGH POWER CERAMIC



**WL-SUMW SMD Ultraviolet
Ceramic Waterclear**
Size: 3535
 λ_{Peak} : 275 – 405 nm
 I_{e} : 1.5 – 1100 mW
 $V_{\text{F typ}}$: 3.5 – 6.5 V

THT ROUND

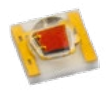


**WL-TMRW THT Mono-color
Round Waterclear**
Size: 3 mm (with/without stopper)
5 mm (with/without stopper)
 $\lambda_{\text{DOM typ}}$: 470 – 623 nm
 $I_{\text{V typ}}$: 1500 – 15000 mcd
 $V_{\text{F typ}}$: 1.9 – 3.4 V
Emitting color: Red, Yellow, Green, Blue



**WL-TMRC THT Mono-color
Round Color**
Size: 3 mm (without stopper)
5 mm (without stopper)
 $\lambda_{\text{DOM typ}}$: 470 – 645 nm
 $I_{\text{V typ}}$: 30 – 500 mcd
 $V_{\text{F typ}}$: 2 – 3.2 V
Emitting color: Red, Super Red, Yellow,
Bright Green, Blue

HIGH POWER CERAMIC



**WL-SMDC SMD Mono-color
Ceramic LED Waterclear**
Size: 3535
 $\lambda_{\text{DOM typ}}$: 460 – 625 nm
 $\Phi_{\text{V typ}}$: 25 – 85 lm
 $V_{\text{F typ}}$: 2 – 3.4 V
Emitting color: Red, Yellow, Green, Blue



**WL-SMDC Mono-color Ceramic
LED Waterclear Horticulture**
Size: 3535
 $\lambda_{\text{DOM typ}}$: 450 – 730 nm
 $\Phi_{\text{V typ}}$: Radiant 240 – 600 mW
 $V_{\text{F typ}}$: 1.8 – 3.2 V
Emitting color: Far Red, Hyper Red,
Deep Blue

TOP LED



**WL-SUTW SMT Ultraviolet
Top LED Waterclear**
Size: 2835
 λ_{Peak} : 365 – 405 nm
 $I_{\text{e typ}}$: 50 – 140 mW
 $V_{\text{F typ}}$: 3.4 – 3.6

OPTOELECTRONICS

INFRARED

PHOTODIODES

INFRARED EMITTER

CHIP LED

HIGH POWER CERAMIC

CHIP TOP VIEW



WL-SICW SMD Infrared LED Waterclear

Size: 0402, 0603, 0805, 1206
 $\lambda_{\text{Centroid}}$: 850, 940 nm
 $I_{\text{e typ}}$: 0.8 – 2 mW/sr
 $V_{\text{F typ}}$: 1.2 – 1.4 V



WL-SIMW SMD Infrared Ceramic Waterclear

Size: 3535
 $\lambda_{\text{Centroid}}$: 850, 940 nm
 $I_{\text{e typ}}$: 220 – 350 mW/sr
 $V_{\text{F typ}}$: 1.9 – 2.2 V



WL-SDCB SMT Photodiode Chip Black

Size: 0805, 1206
 λ_{Peak} : 940 nm
 $I_{\text{p typ}}$: 1.8 μA
 $I_{\text{D max}}$: 10 nA

CHIP LED SIDE VIEW

HIGH POWER QFN

CHIP SIDE VIEW



WL-SISW SMD Infrared Sideview LED Waterclear

Size: 0402, 1002, 1104, 1106, 1206
 $\lambda_{\text{Centroid}}$: 850, 940 nm
 $I_{\text{e typ}}$: 1 – 11 mW/sr
 $V_{\text{F typ}}$: 1.2 – 1.6 V



WL-SIQW Infrared QFN LED Waterclear

Size: 2720, 3535, 3737
 $\lambda_{\text{Centroid}}$: 850, 940 nm
 $I_{\text{e typ}}$: 125 – 800 mW/sr
 $V_{\text{F typ}}$: 1.8 – 3.2 V



WL-SDSB SMT Photodiode Sideview Black

Size: 1002, 1104
 λ_{Peak} : 940 nm
 $I_{\text{p typ}}$: 2.5 μA
 $I_{\text{D max}}$: 10 nA

CHIP LED REVERSE MOUNT

THT INFRARED ROUND

THT ROUND



WL-SIRW SMD Infrared Reverse mount Waterclear

Size: 1206 (dome)
 $\lambda_{\text{Centroid}}$: 850, 940 nm
 $I_{\text{e typ}}$: 5 – 20 mW/sr
 $V_{\text{F typ}}$: 1.2 – 1.4 V



WL-TIRW THT Infrared Round Waterclear

Size: 3 mm (without stopper)
 5 mm (without stopper)
 $\lambda_{\text{Centroid}}$: 845, 940 nm
 $I_{\text{e typ}}$: 30 – 85 mW/sr
 $V_{\text{F typ}}$: 1.3 – 1.5 V



WL-TDRW THT Photodiode Round Waterclear

Size: 3 mm (without stopper)
 5 mm (without stopper)
 λ_{Peak} : 940 nm
 $I_{\text{p typ}}$: 28 μA
 $I_{\text{D max}}$: 30 nA

TOP LED

THT INFRARED ROUND COLOR



WL-SITW SMD Infrared TOP LED Waterclear

Size: 3528
 $\lambda_{\text{Centroid}}$: 845, 940 nm
 $I_{\text{e typ}}$: 5 – 70 mW/sr
 $V_{\text{F typ}}$: 1.4 – 1.5 V



WL-TIRC THT Infrared Round Color

Size: 3 mm (without stopper)
 5 mm (without stopper)
 $\lambda_{\text{Centroid}}$: 845, 940 nm
 $I_{\text{e typ}}$: 30 – 85 mW/sr
 $V_{\text{F typ}}$: 1.2 – 1.4 V



WL-TDRB THT Photodiode Round Black

Size: 3 mm (without stopper)
 5 mm (without stopper)
 λ_{Peak} : 940 nm
 $I_{\text{p typ}}$: 31 μA
 $I_{\text{D max}}$: 30 nA



All Optoelectronic Components at a glance:
www.we-online.com/optoelectronic

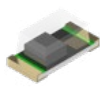


Explore our application notes for Optoelectronics:
www.we-online.com/appnotes

OPTOELECTRONICS

PHOTOTRANSISTORS

CHIP TOP VIEW



**WL-STCW SMT Phototransistor
Chip Waterclear**
Size: 0603, 0805, 1206
 λ_{Peak} : 940 nm
 $I_{\text{CE, p. typ.}}$: 1.6 mA
 $I_{\text{CEO, Dark max.}}$: 100 nA



**WL-STCB SMT Phototransistor
Chip Black**
Size: 0603, 1206
 λ_{Peak} : 940 nm
 $I_{\text{CE, p. typ.}}$: 1.2 mA
 $I_{\text{CEO, Dark max.}}$: 100 nA

PLCC TYPE



**WL-STTW SMT Phototransistor
Top Waterclear**
Size: 3528
 λ_{Peak} : 940 nm
 $I_{\text{CE, p. typ.}}$: 3.1 mA
 $I_{\text{CEO, Dark max.}}$: 100 nA



**WL-STTB SMT Phototransistor
Top Black**
Size: 3528
 λ_{Peak} : 940 nm
 $I_{\text{CE, p. typ.}}$: 2.8 mA
 $I_{\text{CEO, Dark max.}}$: 100 nA

OPTOCOUPLER

WL-OCPT Optocoupler Phototransistor

Package: Series 814/817 DIP 4
Series 354/356/357 SOP4
Series 101xLSOP4
Series 827, DIP 8
CTR: 50 – 600 %
 V_{ISO} : 3750 – 5000 V



WL-OCDA Optocoupler Darlington

Package: Series 352/355 SOP4,
Series 815 DIP4
CTR: 600-15000 %
 V_{ISO} : 3750 – 5000 V



WL-OCTR Optocoupler Triac

Package: DIP 4, DIP 6, SOP4
(Random Phase and Zero Cross)
 I_{FT} : 5 mA – 15 mA
 V_{DRM} : 250 – 600 V
 V_{ISO} : 3750 – 5000 V



CHIP SIDE VIEW



**WL-STSW SMT Phototransistor
Sideview Waterclear**
Size: 1104
 λ_{Peak} : 940 nm
 $I_{\text{CE, p. typ.}}$: 2.5 mA
 $I_{\text{CEO, Dark max.}}$: 100 nA



**WL-STSB SMT Phototransistor
Chip Black**
Size: 1002
 λ_{Peak} : 940 nm
 $I_{\text{CE, p. typ.}}$: 1 mA
 $I_{\text{CEO, Dark max.}}$: 100 nA

THT ROUND



**WL-TTRB THT Phototransistor
Round**
Size: 3 mm, 5 mm
 λ_{Peak} : 940 nm
 $I_{\text{CE, p. typ.}}$: 10 mA
 $I_{\text{CEO, Dark max.}}$: 100 nA



**WL-TTRW THT Phototransistor
Round Waterclear**
Size: 3 mm, 5 mm
 λ_{Peak} : 850 nm
 $I_{\text{CE, p. typ.}}$: 15 mA
 $I_{\text{CEO, Dark max.}}$: 300 nA

LASER



**WL-VCSL Vertical Cavity
Surface Emitting Laser**
Size: 3535
 λ_{Peak} : 850 – 940 nm
 $\Phi_{\text{V typ.}}$: 1900 – 2100 mW
 $V_{\text{F typ.}}$: 2 – 2.1 V

CHIP REVERSE MOUNT



**WL-STRB SMT Phototransistor
Reverse mount Black**
Size: 1206 (dome)
 λ_{Peak} : 940 nm
 $I_{\text{CE, p. typ.}}$: 4.4 mA
 $I_{\text{CEO, Dark max.}}$: 100 nA

7 SEGMENTS DISPLAY



WL-S7DS
 $\lambda_{\text{Dom typ.}}$: 465 – 635 nm
 $I_{\text{V typ.}}$: 15 – 38 mcd
 $V_{\text{F typ.}}$: 2 – 3 V
Emitting Color: Bright Green,
Super Red, Blue



WL-T7DS
 $\lambda_{\text{Dom typ.}}$: 465 – 635 nm
 $I_{\text{V typ.}}$: 32 – 46 mcd
 $V_{\text{F typ.}}$: 2 – 3 V
Emitting Color: Bright Green,
Super Red, Blue



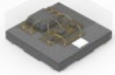
Component libraries available for:
• PCB library: Altium Designer,
EAGLE,
www.we-online.com/library

IC LEDs

SINGLE WIRE COMMUNICATION PROTOCOL

CHIP LED COMPACT

NEW



WL-ICLED Integrated Controller within LED

Size: 2020
 λ_{peak} : 470 – 630 nm
 $I_{\text{v,typ}}$: 250 – 120 mcd
 V_{DD} : 3.3 – 5.5 V
 Emitting color: Red, Green, Blue

CHIP LED SIDE VIEW

NEW



WL-ICLED Integrated Controller within LED

Size: 3210
 λ_{peak} : 470 – 630 nm
 $I_{\text{v,typ}}$: 50 – 120 mcd
 V_{DD} : 3.3 – 5.5 V
 Emitting color: Red, Green, Blue

PLCC TYPE

NEW



WL-ICLED Integrated Controller within LED

Size: 2121
 λ_{peak} : 470 – 630 nm
 $I_{\text{v,typ}}$: 240 – 1000 mcd
 V_{DD} : 4.2 – 5.5 V
 Emitting color: Red, Green, Blue

NEW



WL-ICLED Integrated Controller within LED

Size: 5050
 λ_{peak} : 470 – 630 nm
 $I_{\text{v,typ}}$: 260 – 1300 mcd
 V_{DD} : 3.3 – 5.5 V
 Emitting color: Red, Green, Blue



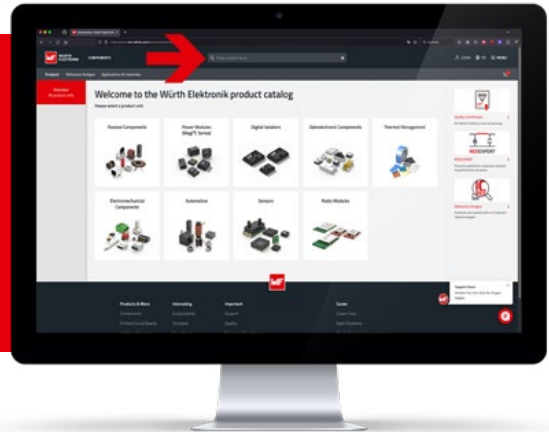
All Optoelectronic Components
 at a glance:
www.we-online.com/optoelectronic

POWER MODULES

HOW TO FIND DETAILED PRODUCT INFORMATION?

VISIT WWW.WE-ONLINE.COM AND SEARCH FOR PRODUCT SERIES INFORMATION, E.G.:

Magi³C-VDMM



VARIABLE STEP DOWN REGULATOR MODULES



Magi³C-VDRM Variable Step Down Regulator Modules

V_{IN} : 2.95 – 50 V
 V_{OUT} : 0.8 – 24 V
 I_{OUT} : 1 – 6 A
 F_{SW} : 0.2 – 2 MHz

LED STEP DOWN HIGH CURRENT MODULES



Magi³C-LDHM LED Step Down High Current Modules

V_{IN} : 4.5 – 60 V
 $N_{LED_{max}}$: 16 ($V_F = 3.2 V$)
 I_{OUT} : 0.45 A
 F_{SW} : 0.8 MHz

VARIABLE ISOLATED SIP MODULES



Magi³C-VISM Variable Isolated SIP Modules

V_{IN} : 8 – 42 V
 V_{OUT} : 3.3 – 6 V
 P_G : 1 W
 V_{ISO} : 2000 V

VARIABLE STEP DOWN MICROMODULES



Magi³C-VDMM Variable Step Down Micro-Modules

V_{IN} : 2.5 – 36 V
 V_{OUT} : 0.6 – 6 V
 I_{OUT} : 0.3 – 1.2 A
 F_{SW} : 1.2 – 4 MHz

FIXED ISOLATED SIP/SMT MODULES



Magi³C-FISM Fixed Isolated SIP/SMT Modules

V_{IN} : 2.97 – 26.4 V
 V_{OUT} : 5 – 15 V
 P_G : 1 – 2 W
 V_{ISO} : 1000 – 4000 V

VARIABLE STEP DOWN LGA MODULES

EXTENDED



Magi³C-VDLM Variable Step Down LGA Modules

V_{IN} : 3.5 – 38 V
 V_{OUT} : 0.8 – 17 V
 I_{OUT} : 1 – 3 A
 F_{SW} : 200 – 2200 kHz

FIXED STEP DOWN REGULATOR MODULES



Magi³C-FDSM Fixed Step Down Regulator Modules

V_{IN} : 4.75 – 74.5 V
 V_{OUT} : 3.3 – 15 V
 I_{OUT} : 0.5 – 1 A
 F_{SW} : 0.166 – 0.7 MHz



Magi³C Power Module Designer:
<https://redexpert.we-online.com/we-redexpert/en/#/magic-design>



All Power Modules at a glance:
www.we-online.com/power-mod



Explore our application notes for Power Modules:
www.we-online.com/appnotes



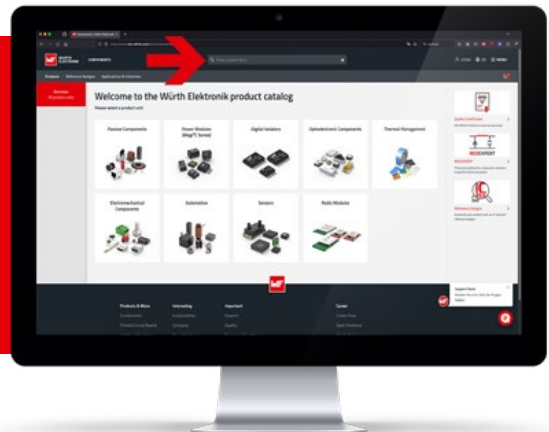
Component libraries available for:
 Altium Designer, EAGLE
www.we-online.com/library

DIGITAL ISOLATORS

HOW TO FIND DETAILED PRODUCT INFORMATION?

VISIT WWW.WE-ONLINE.COM AND SEARCH FOR PRODUCT SERIES INFORMATION, E.G.:

WPME-CDIP



CAPACITIVE DIGITAL ISOLATORS STANDARD

CAPACITIVE DIGITAL ISOLATORS POWERED

NEW



WPME-CDIS

Channel Configuration: 1/1, 2/0, 2/2, 3/1, 4/0
 V_{CC} min.: 2.375 V
 V_{CC} max.: 5.5 V
 V_{ISO} : 3750, 5000 V (RMS)

NEW



WPME-CDIP

Channel Configuration: 2/2, 3/1, 4/0
 V_{CC} min.: 3.15 V
 V_{CC} max.: 5.5 V
 V_{ISO} : 5000 V (RMS)



All digital isolators at a glance:
www.we-online.com/digitalisolators

RADIO MODULES

WIRELESS CONNECTIVITY

CELLULAR



Adrastea-I

LTE-NB.IoT / Cat.M1
incl. GNSS
incl. ARM Cortex M4
14 x 13 x 2 mm

BLUETOOTH



Proteus-I / -II

Bluetooth® LE 4.2
Bluetooth® LE 5.0
Nordic nRF52832
3 dBm output power
11 x 8 x 2 mm

COMBINED



Setebos-I

Bluetooth® LE 5.1 &
WE-ProWare
2.4 GHz
Nordic nRF52840
8 dBm output power
12 x 8 x 2 mm

WIFI



Calypso

IEEE 802.11 b/g/n
2.4 GHz
18 dBm output power
19 x 27.5 x 4 mm



Proteus-III

Bluetooth® LE 5.1
Nordic nRF52840
6 dBm output power
12 x 8 x 2 mm



Stephano-I

Bluetooth® LE 5.0
IEEE 802.11 b/g/n
ESP32-C3
13 dBm output power
13 x 9.5 x 2 mm

Proteus-e



Bluetooth® LE 5.1
Nordic nRF52805
4 dBm output power
9 x 7 x 2 mm

PROPRIETARY



Thadeus

433 MHz
RF Pad
15 dBm output power
27 x 17 x 3.8 mm

BUILD YOUR OWN FIRMWARE



Ophelia-I

Nordic nRF52805
4 dBm output power
9 x 7 x 2 mm

LONG-RANGE-WAN



Daphnis-I

868 MHz
Supporting Classes A, B and C
13 dBm, output power
15 x 16 x 3 mm



Tarnos-III

868 MHz
RF Pad / PCB Antenna
14 dBm output power
27 x 17 x 3.8 mm



Ophelia-III

Nordic nRF52840
6 dBm output power
12 x 8 x 2 mm



Thebe-II

868 MHz
RF Pad
27 dBm output power
27 x 17 x 3.8 mm

WM-BUS



Orthosie-I

ESP32-C3
13 dBm output power
13 x 9.5 x 2 mm



Mimas-I

169 MHz OMS
Operating mode: N (a-f)
14 dBm output power
27 x 17 x 3.8 mm



Telesto-III

915 MHz
RF Pad / PCB Antenna
14 dBm output power
27 x 17 x 3.8 mm

WIREPAS



Thetis-I

Wirepas routing mesh protocol, 2.4 GHz
Nordic nRF52840
+6 dBm output power
8 x 12 x 2 mm



Metis-Analyzer

868 MHz OMS parser
Operating modes S, T, C
Deep packet analysis
Decryption (AES128)



Triton

2.4 GHz
RF Pad / chip antenna
10 dBm output power
27.5 x 16 x 3.2 mm



Metis-Simulator

868 MHz OMS
Operating modes S, T, C
Simulates Meter Data



Thyone-I

2.4 GHz
Nordic nRF52840
Smart antenna selection
8 dBm output power
12 x 8 x 2 mm

SENSORS

SENSORS

HUMIDITY



WSEN-HIDS

16 bit humidity and temperature output
I²C and SPI interface
1.5 x 1.5 x 0.5 mm



WSEN-PADS

26 to 126 kPa
260 to 1260 mbar
24 bit output resolution
2 x 2 x 0.8 mm



WSEN-PDUS

±0.1 kPa / ±1 mbar
15 bit digital output
Analog & I²C interface
5 V supply, vertical nozzles
13.3 x 8 x 7.55 mm

TEMPERATURE



WSEN-TIDS

Digital temp. sensor
Up to ±0.25 °C typ.
16 bit output resolution
2 x 2 x 0.55 mm



WSEN-ITDS

3 axis acceleration
14 bit output resolution
±2g, ±4g, ±8g, ±16g
2 x 2 x 0.7 mm



WSEN-PDUS

±1 kPa / ±10 mbar
15 bit digital output
Analog & I²C interface
5 V supply, vertical nozzles
13.3 x 8 x 7.55 mm



WSEN-PDUS

±1 kPa / ±10 mbar
15 bit digital output
Analog & I²C interface
3.3 V supply, horizontal nozzles
13.3 x 8 x 7.55 mm

RDC-M-MODULE



WE-RCDS

Through hole
For IEC 62955: 2018
39.8 x 44.9 x 13.2 mm



WE-RCDS

PCB mounting with primary conductors.
For IEC 62955: 2018
49 x 34.36 x 16.3 mm



WSEN-ISDS

6 axis acceleration + gyroscope
16 bit output resolution
±2g, ±4g, ±8g, ±16g
±125 dps, ..., ±2000 dps



WSEN-PDUS

±10 kPa / ±100 mbar
15 bit digital output
Analog & I²C interface
5 V supply, vertical nozzles
13.3 x 8 x 7.55 mm



WSEN-PDUS

-100 to 1000 kPa / -1 to 10 bar
15 bit digital output
Analog & I²C interface
5 V supply, vertical nozzles
13.3 x 8 x 7.55 mm



WSEN-PDUS

0 to 100 kPa / 0 to 1 bar
15 bit digital output
Analog & I²C interface
5 V supply, vertical nozzles
13.3 x 8 x 7.55 mm



WSEN-PDUS

-100 to 1000 kPa / -1 to 10 bar
15 bit digital output
Analog & I²C interface
3.3V supply, vertical nozzles
13.3 x 8 x 7.55 mm



WSEN-PDUS

0 to 1500 kPa / 0 to 15 bar
15 bit digital output
Analog & I²C interface
5 V supply, vertical nozzles
13.3 x 8 x 7.55 mm



Product Guide Download:
www.we-online.com/wcs-product-guide

**YOU NEED SUPPORT?
CONTACT US!**
www.we-online.com/wcs-support