Passive Components
One-Click Selection Guide

The pictures are linked to the product page.

www.we-online.com

WÜRTH ELEKTRONIK

EMC Components

Ferrites for PCB Assembly

WE-CBF
Z @ 100 MHz: 5 ~ 2700 Ω
R_{DC}: 0.008 ~ 1.5 Ω
I_R: 50 ~ 6000 mA
Frequency Range: 6 ~ 2000 MHz
Sizes: 0402 ~ 1812

WE-CBF HF
Z @ 100 MHz: 180 ~ 1000 Ω
R_{DC}: 0.25 ~ 1.8 Ω
I_R: 50 ~ 600 mA
Frequency Range: 300 ~ 3000 MHz
Sizes: 0402 ~ 0603

WE-MPSB
Z @ 100 MHz: 56 ~ 550 Ω
R_{DC}: 0.004 ~ 0.035 Ω
I_R: 4000 ~ 10000 mA
Frequency Range: 1 ~ 3000 MHz
Sizes: 1612 ~ 3312

WE-PBF
Z @ 100 MHz: 42 ~ 98 Ω
R_{DC}: 0.6 ~ 0.9 mΩ
I_R: 6 A
Frequency Range: 6 ~ 2000 MHz

WE-PF
R_{DC}: 9 ~ 30 mΩ
I_R: 4.5 ~ 10 A
Frequency Range: 1 ~ 100 MHz

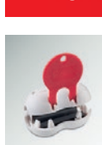
WE-CMS
Z @ 25 MHz: 34 Ω
Z @ 100 MHz: 52 Ω
Frequency Range: 10 ~ 1000 MHz

WE-SUKW
Z @ 25 MHz: 272 ~ 425 Ω
Z @ 100 MHz: 416 ~ 580 Ω
Frequency Range: 0.1 ~ 800 MHz

WE-UKW
Z @ 25 MHz: 145 ~ 920 Ω
Z @ 100 MHz: 230 ~ 1240 Ω
Frequency Range: 0.1 ~ 500 MHz

WE-MLS
Z @ 25 MHz: 115 ~ 292 Ω
Z @ 100 MHz: 150 ~ 334 Ω
Frequency Range: 10 ~ 800 MHz

Ferrites for Cable Assembly



STAR-BUENO
Z @ 25 MHz 1 turn: 100 ~ 180 Ω
Z @ 100 MHz 1 turn: 150 ~ 250 Ω
Cable diameter: 2.5 ~ 8.5 mm
Frequency Range: 5 ~ 2000 MHz

STAR-FIX
Z @ 25 MHz 1 turn: 145 ~ 151 Ω
Z @ 100 MHz 1 turn: 246 ~ 270 Ω
Cable diameter: 4.5 ~ 12.5 mm
Frequency Range: 5 ~ 2000 MHz

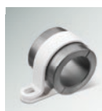
STAR-FIX LFS
Z @ 25 MHz 1 turn: 30 Ω
Z @ 100 MHz 1 turn: 45 Ω
Cable diameter: 4.5 ~ 12.5 mm
Frequency Range: 0.3 ~ 30 MHz

STAR-TEC
Z @ 25 MHz 1 turn: 98 ~ 176 Ω
Z @ 100 MHz 1 turn: 182 ~ 321 Ω
Cable diameter: 3.5 ~ 12.5 mm
Frequency Range: 5 ~ 2000 MHz

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
Frequency Range: 100 ~ 2000 MHz

STAR-RING
Z @ 25 MHz 1 turn: 64 ~ 142 Ω
Z @ 100 MHz 1 turn: 119 ~ 327 Ω
Cable diameter: 8 ~ 27 mm
Frequency Range: 5 ~ 2000 MHz

STAR-FLAT
Z @ 25 MHz 1 turn: 42 ~ 97 Ω
Z @ 100 MHz 1 turn: 101 ~ 194 Ω
No. of Pins: 26 ~ 50
Frequency Range: 5 ~ 2000 MHz



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

WE-TOF
Z @ 25 MHz 1 turn: 25 ~ 110 Ω
Z @ 100 MHz 1 turn: 37 ~ 200 Ω
Cable diameter: 3.0 ~ 33.4 mm
Frequency Range: 1 ~ 2000 MHz

Ferrites for Cable Assembly

WE-AFB
Z @ 25 MHz 1 turn: 46 ~ 300 Ω
Z @ 100 MHz 1 turn: 70 ~ 451 Ω
Cable diameter: 3.3 ~ 17.5 mm
Frequency Range: 1 ~ 2000 MHz

WE-SAFB
Z @ 25 MHz 1 turn: 20 ~ 144 Ω
Z @ 100 MHz 1 turn: 40 ~ 278 Ω
Cable diameter: 0.55 ~ 4 mm
Frequency Range: 1 ~ 1000 MHz

Filter Chokes

WE-MI
L: 0.047 ~ 10 µH
R_{DC}: 0.15 ~ 2.1 Ω
I_R: 3 ~ 300 mA
Frequency Range: 1 ~ 100 MHz

WE-SD
L: 2 ~ 10 µH
R_{DC}: 1.7 ~ 33 mΩ
I_R: 2.5 ~ 15 A
Frequency Range: 0.01 ~ 90 MHz

WE-FI
L: 8.2 ~ 860 µH
R_{DC}: 0.01 ~ 0.45 Ω
I_R: 0.4 ~ 5 A
Frequency Range: 0.01 ~ 0.3 MHz

Common Mode Chokes

WE-CNSW
Z @ 100 MHz: 67 ~ 8000 Ω
R_{DC}: 0.08 ~ 2.7 Ω
I_R: 200 ~ 2000 mA
Frequency Range: 1 ~ 1000 MHz

WE-CNSW HF
Z @ 100 MHz: 67 ~ 120 Ω
R_{DC}: 0.24 ~ 0.30 Ω
I_R: 280 ~ 320 mA
Frequency Range: 10 ~ 6500 MHz

WE-SLM
L: 11 ~ 100 µH
R_{DC}: 0.18 ~ 0.58 Ω
I_R: 400 mA
Frequency Range: 9 ~ 600 MHz

WE-SL1
L: 10 ~ 330 µH
R_{DC}: 0.16 ~ 0.3 Ω
I_R: 300 mA
Frequency Range: 9 ~ 600 MHz

WE-SL2
L: 10 ~ 6500 µH
R_{DC}: 0.08 ~ 0.95 Ω
I_R: 0.4 ~ 1.6 A
Frequency Range: 0.01 ~ 600 MHz

WE-SL3
L: 20 ~ 100 µH
R_{DC}: 0.14 ~ 0.45 Ω
I_R: 450 ~ 700 mA
Frequency Range: 9 ~ 600 MHz

WE-SL5
L: 120 ~ 4700 µH
R_{DC}: 0.025 ~ 0.72 Ω
I_R: 350 ~ 2500 mA
Frequency Range: 9 ~ 600 MHz

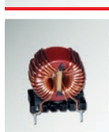
WE-SL5 HC
L: 5 ~ 30 µH
R_{DC}: 0.0055 ~ 0.06 Ω
I_R: 3.5 ~ 5 A
Frequency Range: 1.4 ~ 300 MHz

WE-SL
L: 35 ~ 4700 µH
R_{DC}: 0.035 ~ 0.85 Ω
I_R: 0.2 ~ 2.7 A
Frequency Range: 0.01 ~ 600 MHz

Common Mode Chokes

WE-SCC
L: 1 ~ 1000 µH
I_R: 150- 4750 mA
R_{DC}: 0.01- 4.30 Ω
Frequency Range: 0.1 ~ 100 MHz

WE-CMB
L: 0.5 ~ 39 mH
R_{DC}: 1.7 ~ 3000 mΩ
I_R: 0.3 ~ 35 A
Frequency Range: 0.1 ~ 50 MHz



WE-CMB HC
L: 0.175 ~ 0.7 mH
R_{DC}: 2.7 ~ 13 Ω
I_R: 5 ~ 10 mA
Frequency Range: 0.1 ~ 100 MHz

Common Mode Chokes

WE-CMB NiZn
L: 14 ~ 110 µH
R_{DC}: 2.7 ~ 80 mΩ
I_R: 1.5 ~ 10 A
Frequency Range: 4 ~ 500 MHz

WE-CMBH
L: 1 ~ 7 mH
R_{DC}: 12.5 ~ 80 mΩ
I_R: 3.5 ~ 10 A
Frequency Range: 0.001 kHz ~ 30 MHz

WE-LF
L: 0.4 ~ 50 mH
R_{DC}: 0.02 ~ 2.6 Ω
I_R: 0.3 ~ 6 A
Frequency Range: 0.1 ~ 500 MHz

WE-LF SMD
L: 0.7 ~ 47 mH
R_{DC}: 0.03 ~ 2.6 Ω
I_R: 0.3 ~ 4 A
Frequency Range: 0.1 ~ 500 MHz

WE-TFC
L: 1.8 ~ 25 mH
I_R: 0.25 ~ 1.0 A
R_{DC}: 0.31 ~ 3.60 Ω
Frequency Range: 0.01 ~ 100 MHz

WE-TFCH
L: 1.8 ~ 25 mH
R_{DC}: 0.31 ~ 3.60 Ω
I_R: 0.25 ~ 1.0 A
Frequency Range: 0.01 ~ 100 MHz

WE-FC
L: 0.82 ~ 33 mH
R_{DC}: 0.065 ~ 2.5 Ω
I_R: 0.3 ~ 2 A
Frequency Range: 0.01 ~ 100 MHz

Circuit Protection

WE-TVS
V_{RWM}: 3.3 ~ 5 V_{DC}
C_{typ}: 0.25 ~ 55 pF
Channels: 2 ~ 6 (+VDD)
Uni/Bidirectional, , Rail-to-Rail

WE-VE/WE-VEA
Operating Voltage: 5 ~ 24 V_{DC}
Capacitance @ 1 MHz: 0.2 ~ 120 pF
Size: 0201 ~ 0805/0508 ~ 0612

WE-VS
Operating voltage: 5.5 ~ 85 V_{DC}
i_{max}: 20 ~ 1200 A
W_{max}: 0.02 ~ 12 J
C_{typ}: 70 ~ 13600 pF
Size: 0402 ~ 2220

WE-VD
Operating Voltage: 18 ~ 1465 V_{DC}
Diameters: 5 ~ 20 mm
i_{max}: 0.1 ~ 10 kA
W_{max}: 0.7 ~ 496 J
Reference for UL/CSA/VDE

EMI Shielding Material

EMI Shielding Material
Conductive shielding gasket, earthing belts, conductive foam, EMI shielding tape, earthing nylon clips

WE-SECF
SMD EMI Contact Fingers
Type: 0148 - 2240
Material: Copper Beryllium (CuBe) gold-plated (AU)

D-SUB Filter Connectors

D-SUB Filter Connectors
Bent 90°, solder cup, solder pin straight, filter adapter

Power Magnetics

Power Inductors

WE-PMI
L: 0.47 ~ 10 µH
R_{DC}: 40 ~ 700 mΩ
I_R: 0.3 ~ 2 A
Frequency Range: 1 ~ 10 MHz

WE-GF
L: 0.1 ~ 1000 µH
R_{DC}: 0.32 ~ 50 Ω
I_R: 30 ~ 450 mA
Frequency Range: 0.1 ~ 100 MHz

WE-LQ
L: 1 ~ 2200 µH
R_{DC}: 0.08 ~ 63 Ω
I_R: 0.04 ~ 1.8 A
Frequency Range: 10 ~ 1000 MHz

WE-TPC
L: 0.056 ~ 1500 µH
R_{DC}: 0.0045 ~ 9 Ω
I_R: 80 ~ 8500 mA
Frequency Range: 0.1 ~ 10 MHz

WE-SPC
L: 0.22 ~ 100 µH
I_R: 0.40 ~ 5.30 A
R_{DC}: 0.014 ~ 1.133 Ω
Frequency Range: 0.01 ~ 10 MHz

WE-PD
L: 0.47 ~ 1500 µH
R_{DC}: 0.003 ~ 9.44 Ω
I_R: 0.2 ~ 23.5 A
Frequency Range: 0.1 ~ 10 MHz

WE-PDF
L: 0.22 ~ 27 µH
R_{DC}: 1.95 ~ 42.5 Ω
I_R: 4.3 ~ 19 A
Frequency Range: 0.1 ~ 10 MHz

WE-PD2
L: 0.12 ~ 820 µH
R_{DC}: 0.004 ~ 2.55 Ω
I_R: 0.32 ~ 10 A
Frequency Range: 0.1 ~ 10 MHz

WE-PD3
L: 1 ~ 1000 µH
R_{DC}: 0.027 ~ 3.2 Ω
I_R: 0.19 ~ 3.9 A
Frequency Range: 0.1 ~ 10 MHz

WE-PD4
L: 0.47 ~ 10000 µH
R_{DC}: 0.002 ~ 39 Ω
I_R: 0.07 ~ 18 A
Frequency Range: 0.1 ~ 10 MHz

WE-TDC
L: 0.33 ~ 22 µH
I_R: 0.7 ~ 4.5 A
R_{DC}: 0.0145 ~ 0.48 Ω
Frequency Range: 0.01 ~ 10 MHz

WE-DD
L: 1.3 ~ 220 µH
R_{DC}: 0.015 ~ 1.73 Ω
I_R: 0.3 ~ 8.6 A
Frequency Range: 0.1 ~ 10 MHz

WE-DCT
L: 0.091 ~ 100 µH
I_R: 1.1 ~ 14.5 A
R_{DC}: 3.5 ~ 290 mΩ
Frequency Range: 0.05 ~ 3 MHz

WE-EHPI
L: 7.5 ~ 75000 µH
I_R: 0.0035 ~ 2.29 A
R_{DC}: 1.5 ~ 1.9 mΩ
Frequency Range: 0.001 ~ 0.3 MHz

WE-LHMI
L: 0.1 ~ 22 µH
R_{DC}: 0.9 ~ 500 mΩ
I_R: 1 ~ 25 A
Frequency Range: 0.01 ~ 3 MHz

WE-HCI
L: 0.13 ~ 82 µH
R_{DC}: 0.35 ~ 34 mΩ
I_R: 3.5 ~ 415 A
Frequency Range: 0.1 ~ 3 MHz

WE-HCC
L: 0.22 ~ 10 µH
R_{DC}: 0.51 ~ 40.5 mΩ
I_R: 4.4 ~ 27 A
Frequency Range: 0.1 ~ 3 MHz

WE-HCF
L: 0.7 ~ 47 µH
R_{DC}: 0.83 ~12.2 mΩ
I_R: 12 ~ 32 A
Frequency Range: 0.1 ~ 3 MHz

WE-PD2 HV
L: 560 ~ 2200 µH
I_R: 0.15 ~ 0.41 A
R_{DC}: 2.08 ~ 7.2 Ω
Frequency Range: 0.05 ~ 1 MHz

Power Inductors

WE-TI HV
L: 220 ~ 2200 µH
I_R: 0.32 ~ 0.9 A
R_{DC}: 0.60 ~ 4.73 Ω
Frequency Range: 0.05 ~ 1 MHz

WE-PFC
L: 150 ~ 1800 µH
I_R: 0.3 ~ 3.0 A
R_{DC1}: 78 ~ 1550 mΩ
R_{DC2}: 140 ~ 1200 mΩ

WE-HCM
L: 0.072 ~ 0.47 µH
R_{DC}: 0.155 ~ 0.37 mΩ
I_R: 26 ~ 50 A
Frequency Range: 0.1 ~ 3 MHz

WE-TI
L: 1 ~ 22000 µH
R_{DC}: 0.01 ~ 55 Ω
I_R: 0.03 ~ 8.5 A
Frequency Range: 0.01 ~ 90 MHz

WE-TIS
L: 1.3 ~ 100000 µH
R_{DC}: 0.006 ~ 175 Ω
I_R: 0.05 ~ 8.5 A
Frequency Range: 0.001 ~ 10 MHz

WE-SI
L: 12 ~ 1619 µH
R_{DC}: 0.008 ~ 0.7 Ω
I_R: 0.5 ~ 5 A
Frequency Range: 0.01 ~ 0.1 MHz

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-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-PoE
suitable for Power over Ethernet ICs

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

Suitable for PoE+ powered devices

WE-FB
for LT3573, LT3751, LT3574, LT3575, LT3748

WE-UNIT
for Switch Mode Power Supply especially designed for ICs of Power Integrations, STMicroelectronics & NXP

WE-UOST
U_I: 85 ~ 265 V
U_{O1}: 5 ~ 24 V
I_{O1}: 0.28 ~ 1.5 A

WE-SLIM
L: 250 µH
n: 6.25 : 12 : 1 : 1 : 1.25

WE-CST
for Switch Mode Power Supply and AC current detection

WE-GDT
L: 260 ~ 460 µH
R_{DC1}: 520 ~ 1200 mΩ
R_{DC2}: 150 ~ 600 mΩ
R_{DC3}: 170 ~ 600 mΩ

WE-WPCC
L: 10 µH
R_{DC}: 0.2 Ω

Signal & Communications

LAN Transformers

WE-LAN
compliant with IEEE 802.3 standards for Ethernet, Powerover Ethernet, 1 Gigabit Ethernet & Power over Ethernet plus

WE-LAN HV
Compliant with IEEE802.3 standards
4 kV Hipot test

WE-RJ45 LAN / WE-RJ45 LAN HPLE / WE-RJ45 LAN & USB 3.0
for ADSL Modems, LAN, embedded PCs, Hubs, Routers and Switches

Telecom Transformers

WE-AMT
for Analog Modems

WE-ISDN
compliant with ITUG.703 ISDN-Primary rate recommendations

WE-DSL
compliant with IEC905 for ADSL, ADSL 2+, HDSL. SHDSL, UDSL applications

RF Inductors

WE-KI, WE-RFI, WE-RFH
L: 1 ~ 47000 nH
Sizes: 0402, 0603, 0805, 1008
Frequency Range: 90 ~ 5000 MHz

WE-TCI
L: 1 ~ 68 nH
Sizes: 0402, 0603
Frequency Range: 90 ~ 5000 MHz

WE-MK
L: 1 ~ 470 nH
Sizes: 0201, 0402, 0603
Frequency Range: 70 ~ >10000 MHz

LTCC Components

WE-LPF
Frequency Range: 902 ~ 5875 MHz
Sizes: 0603, 0805

WE-BPF
Frequency Range: 2400 ~ 5920 MHz
Sizes: 0805, 1008

WE-BAL
Frequency Range: 2400 ~ 5875 MHz
Sizes: 0603, 0805

WE-MCA
Frequency Range: 423 ~ 5875 MHz

more than you expect

Recommended by the following IC manufacturers:

Active Components
One-Click Selection Guide

The pictures are linked to the product page.

www.we-online.com

WÜRTH ELEKTRONIK

LEDs

Chip LED

WL-SMCW

Size:	0603 / 0805 / 1206
λ_{Dom}:	470 ~ 630 nm
I_V:	40 ~ 450 mcd
V_F:	1.9 ~ 3.2 V

Emitting color: Super Red, Red, Yellow, Amber, Bright Green, Green, Blue

Side view

WL-SMSW

Size:	1204
λ_{Dom}:	470 ~ 624 nm
I_V:	50 ~ 600 mcd
V_F:	2 ~ 3.4 V

Emitting color: Red, Yellow, Bright Green, Green, Blue

Reverse mount

WL-SMRW rectangular

Size:	1206
λ_{Dom}:	525 ~ 624 nm
I_V:	30 ~ 235 mcd
V_F:	2 ~ 3.3 V

Emitting color: Red, Yellow, Bright Green, Green

WL-SMRW cylindrical

Size:	1206
λ_{Dom}:	525 ~ 624 nm
I_V:	30 ~ 235 mcd
V_F:	2 ~ 3.3 V

Emitting color: Red, Yellow, Bright Green, Green

TOP LED

WL-SMTW mono-color

Size:	PLCC 2 (3528)
λ_{Dom}:	470 ~ 625 nm
I_V:	90 ~ 1000 mcd
V_F:	2 ~ 3.2 V

Emitting color: Red, Amber, Yellow, Bright Green, Green, Blue

WL-SBTW bi-color

Size:	PLCC 4 (3528)
λ_{Dom}:	470 ~ 625 nm
I_V:	60 ~ 260 mcd
V_F:	2 ~ 3.2 V

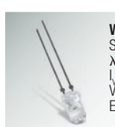
Emitting color: Red/Bright Green, Red/Blue, Yellow/Blue

WL-SFTW full-color

Size:	PLCC 4 (3528)
λ_{Dom}:	470 ~ 625 nm
I_V:	230 ~ 950 mcd
V_F:	2 ~ 3.2 V

Emitting color: Red/Green/Blue

THT round



WL-TMRW waterclear

Size:	3 mm / 5 mm
λ_{Dom}:	456 ~ 623 nm
I_V:	2000 ~ 15000 mcd
V_F:	1.9 ~ 3.4 V

Emitting color: Red, Yellow, Green, Blue

WL-TMRC color diffused

Size:	3 mm / 5 mm
λ_{Dom}:	470 ~ 635 nm
I_V:	15 ~ 500 mcd
V_F:	1.8 ~ 3.2 V

Emitting color: Super Red, Red, Yellow, Bright Green, Blue

more than you expect

Electromechanical One-Click Selection Guide

The pictures are linked to the product page.

www.we-online.com

WÜRTH ELEKTRONIK

WERI Connectors

Board-to-Board

Pin Header WR-PHD
Pitch: 1.27 ~ 2.54 mm
Construction: THT, SMT
Type: straight, angled, board stacker
Rows: single, dual

Socket Header WR-PHD
Pitch: 1.27 ~ 2.54 mm
Construction: THT, SMT
Type: straight, angled, bottom entry

Jumper WR-PHD
Pitch: 1.27 ~ 2.54 mm

MiniModule Connector WR-MM
Gender: female, male
Construction: THT, SMT
Type: straight, angled, w & w/o latch, w & w/o polarization
PCB type
Dual Row

Wire-to-Board

Box Header WR-BHD
Pitch: 2.00 ~ 2.54 mm
Gender: male
Construction: THT, SMT
Type: straight, angled
PCB type

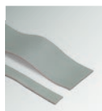
IDC Connector WR-BHD
Pitch: 2.00 ~ 2.54 mm
Gender: female, male, transition
IDC for cable

Male Header WR-MPC4
Type: vertical, angled
Rows: 1-2
Pitch: 4.2 mm
No. of poles: 2 ~ 24
PCB type, cable housing, terminal

Female Receptacle & Terminal WR-MPC4
Rows: 1-2
Pitch: 4.2 mm
No. of poles: 2 ~ 24
Cable housing, terminal

Male Header WR-WTB
Pitch: 1.25 ~ 3.96 mm
Construction: THT, SMT
Type: vertical, angled, horizontal
PCB type
Dual Row

Female Terminal Housing & Crimp Contact WR-WTB
Pitch: 1.25 ~ 3.96 mm
Cable housing, terminal
Dual Row



Ribbon Flat Cable WR-CAB
Pitch: 1.0 & 1.27 mm

Input/Output (I/O)

Horizontal Shielded Modular Jack WR-MJ
Construction: THT, SMT
LED: with, without
xPxC: 6P6C, 8P8C
Tab: up, down, down & up,
Single & Multiport

Horizontal Half-shielded Modular Jack WR-MJ
Construction: THT
LED: without
xPxC: 6P6C, 8P8C
Tab: down
Sizes: 0402 ~ 1812

Horizontal Shielded Modular Jack WR-MJ
Construction: THT
LED: with, without
xPxC: 8P8C
Tab: up, down

Horizontal Plastic Modular Jack WR-MJ
Construction: THT, SMT
LED: without
xPxC: 4P4C, 6P2C, 6P4C, 6P6C, 8P8C
Tab: up, down,
Single & Multiport

Vertical Shielded Modular Jack WR-MJ
Construction: THT
LED: with, without
xPxC: 8P8C

Vertical Plastic Modular Jack WR-MJ
Construction: THT, SMT
LED: without
xPxC: 4P4C, 6P4C, 6P6C, 8P8C

Modular Jack 45° WR-MJ
Shielding: plastic, shielded
Construction: THT
LED: without
xPxC: 8P8C

USB Connector WR-COM
Construction: THT, SMT
Type: horizontal, up right, vertical
USB, Mini-USB, Micro-USB, Type A, Type B, Type AB
Dual Way

Female Connector WR-DSUB
Type: IDC, solder bucket, crimp housing, terminal/contact, straight, angled
Standard, high density, cable, PCB

Input/Output (I/O)

Male Connector WR-DSUB
Type: IDC, solder bucket, crimp housing, terminal/contact, straight, angled
Standard, high density, cable, PCB

Communication Connector WR-COM
Shielding: shielded, half-shielded
Construction: THT, SMT
Type: horizontal, up right, vertical
IEEE1394 / FireWire, HDMI, Mini HDMI, DVI

Card Connectors
Type: Mini SIM, SD Card, Micro SD, Compact Flash, Smart Card, Mega SIM

Housing, Toolings & Accessories for D-Sub

Terminal Block

Wire Protector System WR-TBL
Pitch: 3.5 & 5.0 mm
Modularity: modular / not modular
Wire: 1.5 ~ 3.3 mm²
PCB type

Rising Clamp System WR-TBL
Pitch: 2.54 ~ 10.16 mm
Modularity: modular / not modular
Wire: 0.8 ~ 8.5 mm²
PCB type

Pluggable Cable System WR-TBL
Pitch: 3.5 ~ 7.62 mm
Modularity: modular / not modular
Wire: 1.5 ~ 3.0 mm²
Optional: Coding key

Pluggable PCB System WR-TBL
Pitch: 3.5 ~ 7.62 mm
Modularity: modular, not modular
Gender: female / male
Optional: Coding key, reversed types available

Spring Clamp System WR-TBL
Pitch: 2.54 ~ 5.0 mm
Modularity: not modular
Wire 0.5 ~ 3.0 mm²
PCB type

FPC Connector & FFC Cable

ZIF Connector WR-FPC
Pitch: 0.5 & 1.0 mm
Construction: SMT
Type: horizontal, vertical, Top contact, bottom contact (horizontal)

Flat Flexible Cable WR-FFC
Pitch: 0.5 & 1.0 mm
Type: contact on same side, contact on opposite side

Dip Switches

2.54 mm THT horizontal WS-BS
Actuator: flat, raised
No. of poles: 1 ~ 12
Connection type: THT
non-washable

2.54 mm right angled WS-RA
Actuator: flat, raised
No. of poles: 2 ~ 12
Connection type: THT
non-washable

2.54 mm Piano Type WS-PT
Actuator: flat, raised
No. of poles: 2 ~ 12
Connection type: THT, SMT
non-washable

Switches

Dip Switches

2.54 mm horizontal, small compact WS-IC
Actuator: flat, raised
No. of poles: 1 ~ 12
Connection type: THT, SMT
washable, non-washable

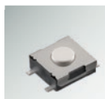
1.27 mm SMD horizontal , small compact with Top Tape WS-HP
Actuator: flat
No. of poles: 1 ~ 12
Connection type: SMT
washable

Tact Switches

6x6 mm SMD WS-TSS
Height: 4.3 ~ 13.0 mm
Operation force: 160 ~ 360
Life cycle: 200000 ~ 1000000

6x6 mm THT WS-TST
Height: 4.3 ~ 13.0 mm
Operation force: 160 ~ 360
Life cycle: 200000 ~ 1000000

6x6 mm THT WS-TST right angled
Height: 3.15 ~ 8.35 mm
Operation force: 160 ~ 360
Life cycle: 200000



6x6 mm SMD washable WS-TSW
Height: 2.5 ~ 3.1 mm
Operation force: 160 ~ 360
Life cycle: 200000 ~ 1000000

6x6 SMD with ground Terminal WS-TSW
Height: 3.1 mm
Operation force: 160 ~ 360
Life cycle: 500000 ~ 1000000

6x6 mm SMD J-Bend washable WS-TSW
Height: 2.5 ~ 3.1 mm
Operation force: 160 ~ 360
Life cycle: 200000 ~ 1000000

12x12 mm THT washable WS-TSW
Height: 4.3 ~ 8.5 mm
Operation force: 160 ~ 360
Life cycle: 200000 ~ 500000

Caps for 12x12mm for WS-TSW

Slide Switches

5x5 mm SMD/J-Bend WE-TSS
Height: 0.8 ~ 1.5 mm
Operation force: 160 ~ 260
Life cycle: 200000 ~ 1000000

6.0x3.5 mm SMD/J-Bend WE-TRS
Height: 4.3 ~ 5.0 mm
Operation force: 160 ~ 360
Life cycle: 30000 ~ 50000

6.0x3.8 mm SMD/J-Bend WE-TRS
Height: 2.5 mm
Operation force: 160 ~ 260
Life cycle: 30000 ~ 50000

4.7x3.5 mm SMD/J-Bend WS-TUS
Height: 1.65 mm
Operation force: 160 ~ 220
Life cycle 100000 ~ 200000

12x12 mm THT illuminated WS-TLT
Height: 8.25 mm
Emitting colour: Red, Green, Blue, Yellow
Life cycle 100000

Caps for WS-TLT 12x12 mm

8.0x4.5 mm SMD illuminated WS-TLS
Height: 2.5 mm
Emitting colour: Red/Red, Bright green/Bright Green, Blue/Blue, Yellow/Yellow
Life cycle 50000

Rotary Switches

7x7 mm SMD Arrow Type WS-RAS
Position: 10 & 16
Code: real, complement
Connection type: SMT
washable

10x10 mm SMD Type WS-RAS/RCS/RSS
Position: 10 & 16
Code: real, complement
Connection type: SMT
washable

7x7 mm THT WS-RAT
Position: 10 & 16
Code: real, complement
Connection type: THT
washable

10x10 mm THT WS-RAT right angeled, 2.54 mm Pitch
Position: 10 & 16
Code: real, complement
Connection type: THT
washable

10x10 mm THT WS-RAT right angeled, 5.08 mm Pitch
Position: 10 & 16
Code: real, complement
Connection type: THT
washable

10x10 mm THT Type WS-RAT /RCT/RST
Position: 10 & 16
Code: real, complement
Connection type: THT
washable

10x10 mm THT WS-RCT right angeled, 2.54 mm Pitch
Position: 10 & 16
Code: real, complement
Connection type: THT
washable

10x10 mm THT WS-RCT right angeled, 5.08 mm Pitch
Position: 10 & 16
Code: real, complement
Connection type: THT
washable

10x10 mm Segment Wheel & Spindel

Slide Switches

10x2.5 mm THT WS-SHT/ WS-SUT
Schematic: SPDT
Switching function: On-On

Power Elements

Power Elements

Solid Pin Power Elements
Current: up to 300 A
Thread size: M2.5 ~ M10
Type: threaded shank, threaded bush, through hole, 90° angled

Flexible Pin Power Elements
Current: up to 45 A
Thread size: M4, M5
Type: faston, square nut

Assembly Technique

Spacer Studs & Round Spacers

Spacer Studs
Material: Brass, machined steel, Polyamide
Thread: internal/external, internal/internal
Length: 5 ~ 95 mm
Thread size: M2 ~ M6

Round Spacer
Material: Brass, Polyamide
Length: 1 ~ 50 mm

Lock Screw for D-SUB
Material: Steel
Length: 10 ~ 18.2 mm

Spacers

Spacer
Locking on both ends, locking on one end, snap rivet

LED Spacer
Fixing fin, panel mount, metric

Cable Holder & Cable Ties

Cable Holder
Mounting: screwable, snap-in, self-adhesive
Cable tie, cable twister, flat cable, round cable, self-adhesive base

Mounting Tabs, Cable Connectors & Spiral Wrapping Band, Tabular Cable Lugs

Connector Covers
for Modular Jacks, RJ11 Connectors, D-SUB Connectors & USB Connectors

Heat Shrink Tube

Heat Shrink Tube
Type: N50, N55, N100, X385
Rate of shrinking: 2:1, 3:1
Diameter before shrinking: 1.2 ~ 101.6 mm

Battery Holders

Battery Holders
Type: 2016, 2020, 2025, 2032
Connection Type: SMT/THT

more than you expect