WURTH ELECTRONICS Product Line for USB 3.0



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Wurth Electronics USB 3.0 Bundle



-Advantages of new USB 3.0 standard

-WR-COM Connectors and Cable Solutions

-EMI Protection: WE-CNSW Common Mode Chokes

-ESD Protection: WE-TVS Diodes

Advantages of the new USB 3.0 (superspeed) standard



•Up to 10x higher data rate than USB 2.0 (4.8Gbps vs. 480Mbps)

•Separate data lanes for upload and download allow to read and store files at the same time

•Due to higher current capability, quicker charge through USB of mobile devices

•Better power efficiency due to interrupt-driven protocol

•Backwards-compatible to USB 2.0 standard

Wurth Electronics line-up for USB 3.0 applications





WR-COM USB Connectors and Cable Assemblies

Connectors and Cable Assemblies compatible to new USB 3.0 standard

Characteristics:

- -Full offering of connectors compatible to all requirements of USB 3.0 (superspeed) in all common configurations
- -Blue color (superspeed standard)
- -High temp LCP plastic used in all Connectors
- -RoHS, REACH & Halogen-Free
- -Selective gold plating of contacts for up to 5000 mating cycles
- -Connectors: reflow and wave solderable!









WR-COM USB Connectors and Cable Assemblies

Connectors and Cable Assemblies compatible to new USB 3.0 standards

Family Overview:

Wurth Part					
Number	Mouser Part Number	Туре	Configuration	Mounting Style	Feature
692121030100	710-692121030100	Receptable	1x1 A Type	тнт	Standard
692121130100	710-692121130100	Receptable	1x1 A Type	ТНТ	Reverse Offset 0.14mm
692121230100	710-692121230100	Receptable	1x1 A Type	тнт	Reverse Offset 1.04mm
692121330100	710-692121330100	Receptable	1x1 A Type	тнт	Reverse Offset 1.75mm
692122030100	710-692122030100	Receptable	1x1 A Type	SMD	Standard
692112030100	710-692112030100	Plug	1x1 A Type	SMD	Standard
692141030100	710-692141030100	Receptable	2x1 A-Type	тнт	Standard
692221030100	710-692221030100	Receptable	1x1 B Type	тнт	Standard
692622030100	710-692622030100	Receptable	1x1 microB Type	SMD	Standard

Wurth Part				
Number	Mouser Part Number	Connection 1	Connection 2	Length
692901100000	710-692901100000	A Plug	A Plug	1m
692902100000	710-692902100000	A Plug	A Socket	1m
692903100000	710-692903100000	A Plug	B Plug	1m
692904100000	710-692904100000	A Plug	Micro B Plug	1m









more than you expect

WE-CNSW HF Series

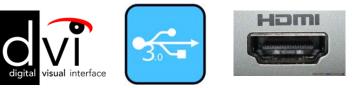
Common Mode Noise Filter for High Speed Data Lines

Characteristics:

- Current compensated data line filter
- High common mode noise suppression at high frequencies
- Small influence on high speed signals through winding symmetry
- Operating temperature: -40 °C to +125 °C
- Small 0805 package size

Applications:

- •USB 3.0
- •LVDS
- •HDMI
- •Other high speed data lines







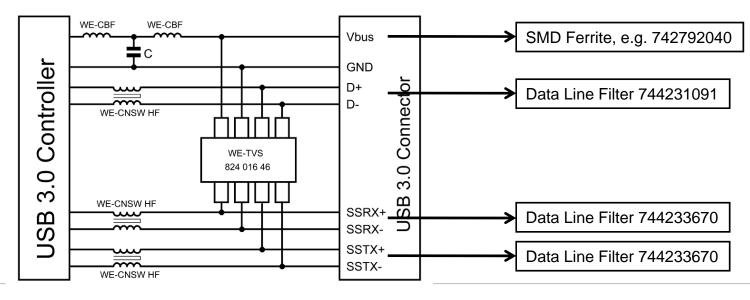
WE-CNSW HF Series



Wurth Part Number	Mouser Part Number	Impedence @ 100MHz	Rated Current	Typical Application
744231091	710-744231091	90Ohm	370mA	USB 2.0
744233670	710-744233670	670hm	320mA	USB 3.0
744233900	710-744233900	90Ohm	280mA	HDMI
744233121	710-744233121	1200hm	280mA	LVDS / USB 2.0



Robust USB Port EMI Protection:



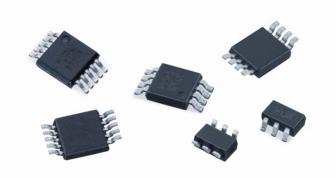
WE-TVS Super Speed Series



TVS Diode Array for High Speed Data Lines

Characteristics:

- Industry's lowest clamping voltage and ultra low capacitance
- Rail-to-Rail protection
- Standard SOT and MSOP package sizes
- Epoxy UL94 V-0 listed
- RoHS, REACH and halogen free
- Operating temperature: -40C° to +85C°



Applications:

•USB 3.0
•Display Port
•HDMI 1.3/1.4
•SATA
•Gbit LAN
•DVI







WE-TVS Super Speed Series

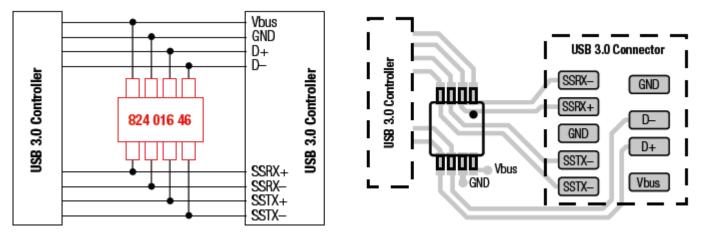


Family Overview:

	Mouser Part Number		Stand-off	Rev Breakdown Voltage			Channel to Channel Input Capacitance	Typical Application
82401646	TBD	MSOP-8L	5V	6V	6+1	0.2pF	0.05pF	USB 3.0 HDMI 1.4
82401444	TBD	MSOP- 10L	5V	6V	4+1	0.6pF	0.10pF	
824014	TBD	SOT23-6L	. 5V	6V	4+1	0.6pF	0.10pF	HDMI 1.3 DVI Display Port



Schematic of a typical USB 3.0 application:



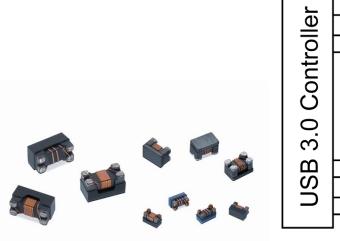
In Summary

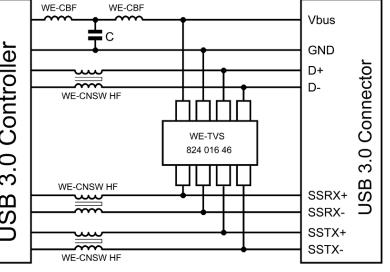


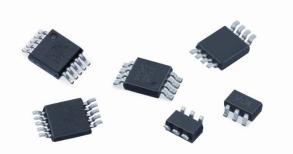














This ends the product presentation

For more information, or to purchase Wurth Electronics products, please visit www.mouser.com Toll Free: (800) 346-6873 Phone: (817) 804-3888 Fax: (817) 804-3899 Email: sales@mouser.com