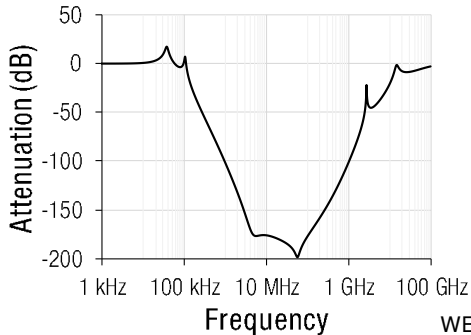


USB 3.1 Type-C™ Dongle

EMC Components

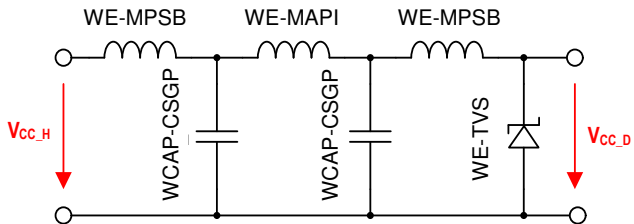


Power Line Filter

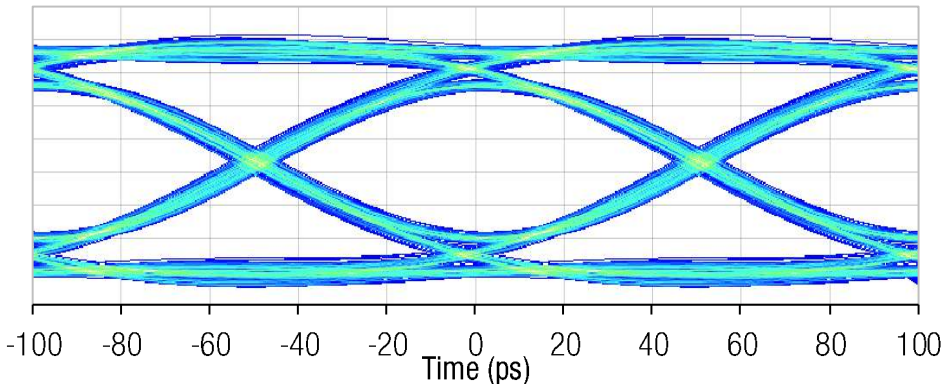


- Pi filter with added chip bead surge protection
- Attenuation up to 200 dB
- Ready to implement

- Ensures clean V_{BUS}
- High frequency noise and current spike protection



Data Line Filter



Eye diagram of the dongle with activated USB equalizer (@ 10 GBit/s).

USB 3.1 Type-C™ Dongle

All Components



<p>742 792 211 11 WE-MPSB EMI Multilayer Power Suppression Bead 1206 110 Ω @ 100 MHz</p>	
<p>744 383 360 12 WE-MAPI SMT Power Inductor 3020 1.2 μH</p>	
<p>885 012 107 018 WCAP-CSGP Ceramic Capacitors 0805 X5R 4.7 μF</p>	
<p>824 045 810 WE-TVS TVS Diode – Standard Series DFN1610-2L 20 V_{DC}</p>	
<p>744 233 56 00 WE-CNSW HF SMT Common Mode Line Filter 0504 60 Ω @ 100 MHz</p>	
<p>824 014 885 WE-TVS TVS Diode – Super Speed Series DFN3810-9L 5 V_{DC}</p>	
<p>744 231 091 WE-CNSW SMT Common Mode Line Filter 0805 90 Ω @ 100 MHz</p>	
<p>632 712 000 011 WR-COM Male USB Type-C</p>	
<p>632 723 130 112 WR-COM Female USB Type-C</p>	