Order Code: 829999STICK

USB 2.0 EMC Stick with integrated ESD Protection and EMI Filter

USB 2.0 Controller

L1
L3 C1 L2

GND
D+
D-
Vbus

USB Socket WR-COM 629 004 160 21
USB Plug WR-COM 629 004 113 921

L1
WE-CNSW

744 232 090
Size: 1206
Ith: 370 mA
Z: 90 Ω

L2 + L3
WE-CBF

742 792 651
Size: 0603
Ith: 1000 mA
Z: 600 Ω

C1
WCAP-CSGP

885 012 206 051
Size: 0603
C: 680 nF
Uth: 16 V

D1
WE-TVS

824 001 02
Size: SOT23-6L
Vth: 6.0 V
Cth: 0.4 pF

ONLY FOR DESIGN PURPOSES
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Electrical Properties:

WE-CNSW
Data Line Impedance

Impedance [Ω]
Frequency [MHz]

Common Mode
Differential Mode

WE-TVSS
ESD Suppression

ESD Current [A]
Clamping Voltage [V]

I/O to GND
VDD to GND

LCL-Filter
VCC Line Noise Suppression

Attenuation [dB]
Frequency [MHz]

1 Ω System
5 Ω System
50 Ω System

Noise without filter
Noise with filter

ONLY FOR DESIGN PURPOSES