

### Differential Pairs

Conductor Width (W)

**0.30019 mm**

Conductor Spacing (S)

**0.254 mm**

Conductor Height (H)

**0.203 mm**

Applied Voltage

**2.5 Volts**

Coupled Length

**10 mm**

Signal Risetime

**1 ns**

Target Zdiff

**90 Ohms**

+/- Tolerance = 2.5%

Target Zdiff Plus

**92.250 Ohms**

Target Zdiff Minus

**87.750 Ohms**

Formula Restrictions:

$0.1 < W/H < 3.0$

$0.1 < S/H < 3.0$

Differential Protocol

**USB 2.X**

Send to Via Calculator

Zdifferential

**91.675 Ohms**

Zo

**53.574 Ohms**

Zodd

**45.838 Ohms**

Zeven

**62.616 Ohms**

? Help

Kb (Term)

**0.0778**

dB

**-22.178**

NEXT Voltage

**0.0235 V**

Kb' (Unterm)

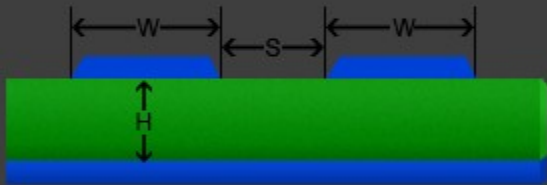
**0.1547**

dB

**-16.210**

NEXT Voltage

**0.0466 V**



### Options

Base Copper Weight

- ☐ 9um
- ☐ 18um
- ☒ 35um
- ☐ 53um
- ☐ 70um
- ☐ 88um
- ☐ 106um
- ☐ 142um
- ☐ 178um

Plating Thickness

- ☒ Bare PCB
- ☐ 18um
- ☐ 35um
- ☐ 53um
- ☐ 70um
- ☐ 88um
- ☐ 106um

Differential Layer

- ☒ Edge Cpld Ext
- ☐ Edge Cpld Int Sym
- ☐ Edge Cpld Int Asym
- ☐ Edge Cpld Embed
- ☐ Broad Cpld Shld
- ☐ Broad Cpld NShld

### Information

Total Copper Thickness  
35 um

W/H = 1.479

S/H = 1.251

Lsat = 82.96 mm



Follow Us

