

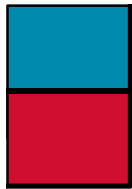
Common mode Rejection Through Center Tap of Magnetics

Roger Karam

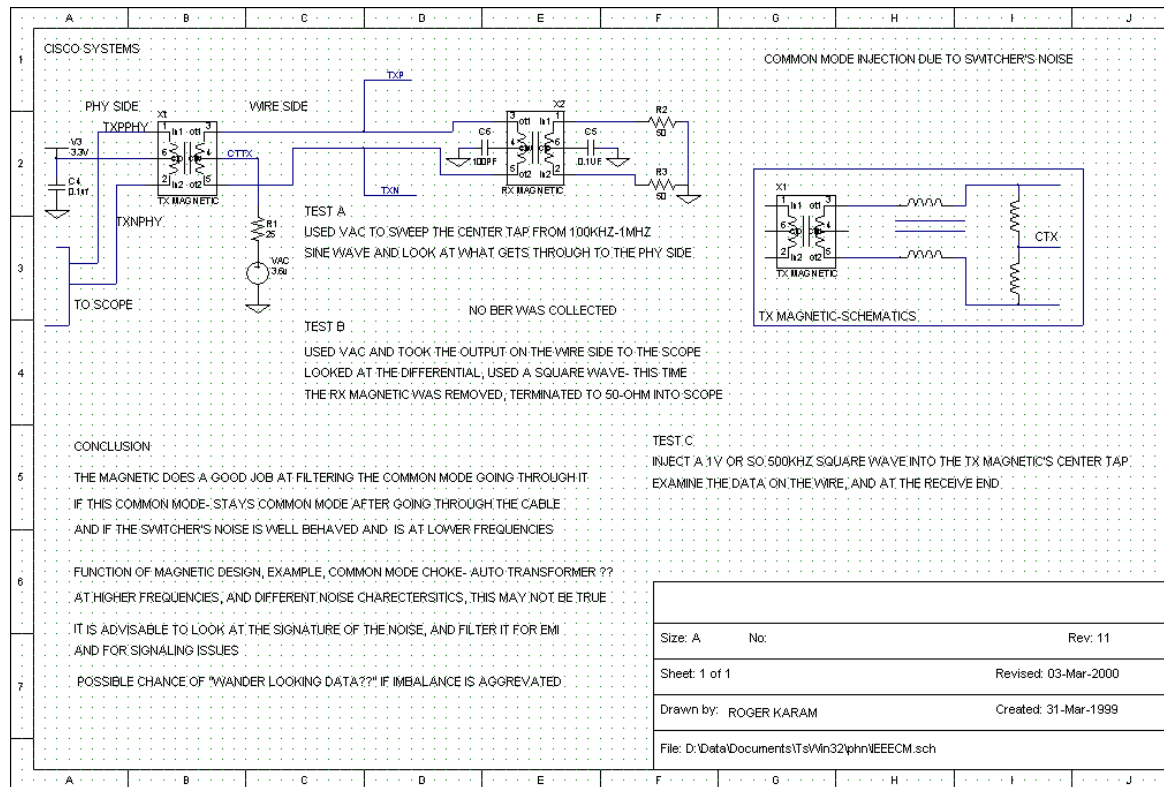
rkaram@cisco.com

309-E
1171_04F8_c1

Cisco Systems

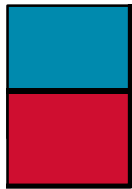


Test Schematic

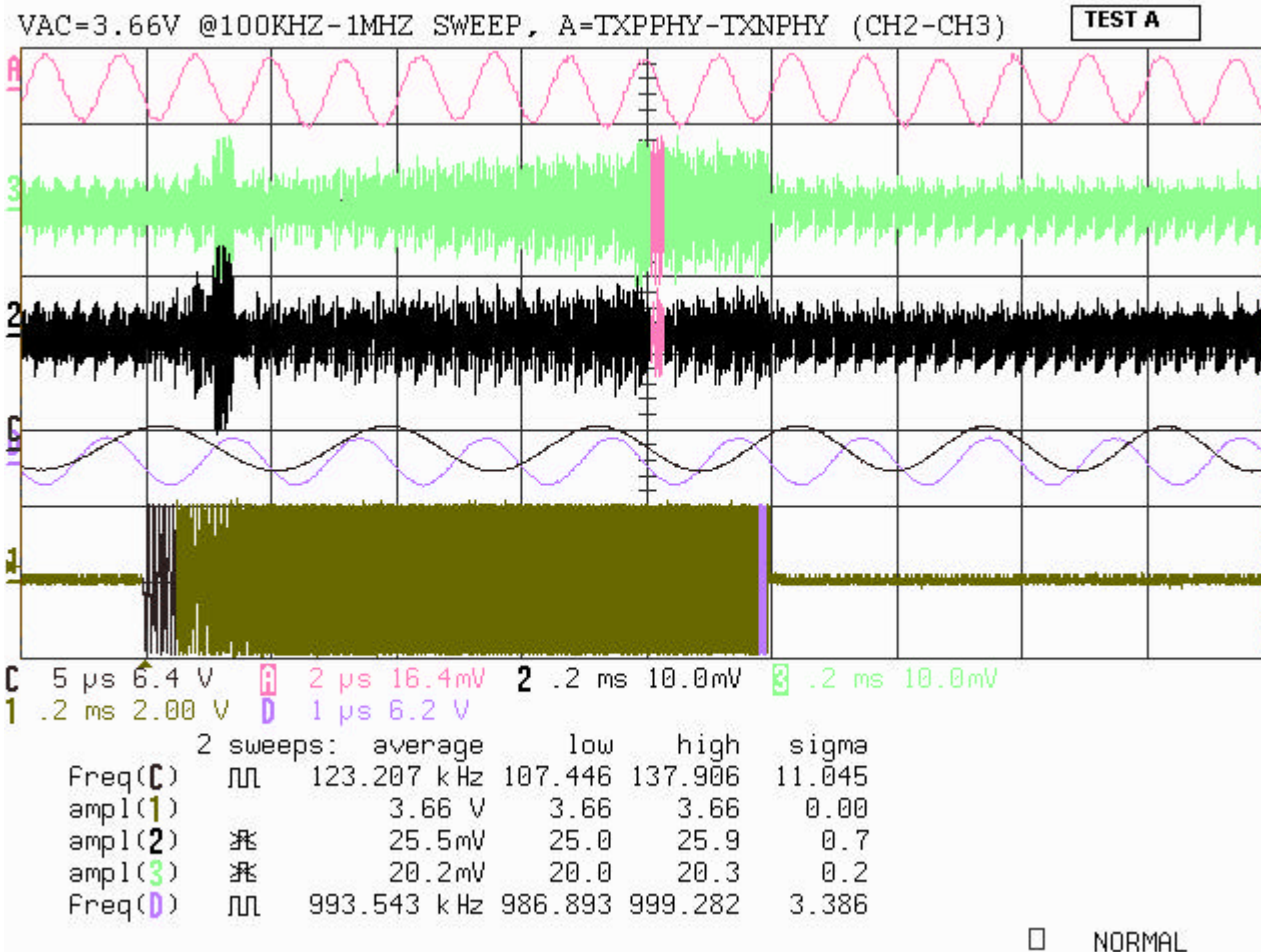


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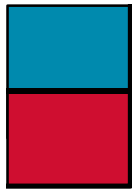
Differential Voltage at the Transmitter Due to Center Tap Noise Voltage



NORMAL

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Signal on the Wire w/o Noise

2-Mar-00
18:35:54

MLT3 WITHOUT NOISE

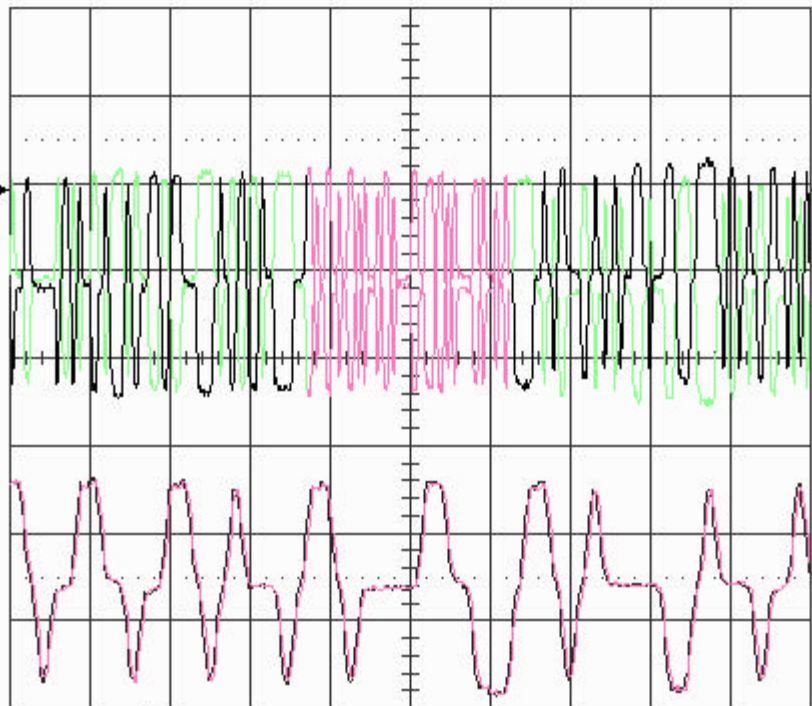
TEST B

2
.2 μ s
0.50 V

3
.2 μ s
0.50 V

2-3
50 ns
1.02 V

C:M1
50 ns
1.00 V



TXP AND TXN
DATA ON WIRE
TO SCOPE, NO
CM NOISE

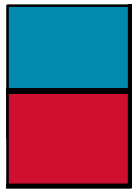
.2 μ s
1 disabled
2 .5 V 50 Ω
3 .5 V 50 Ω
4 disabled

2 DC 0.44 V

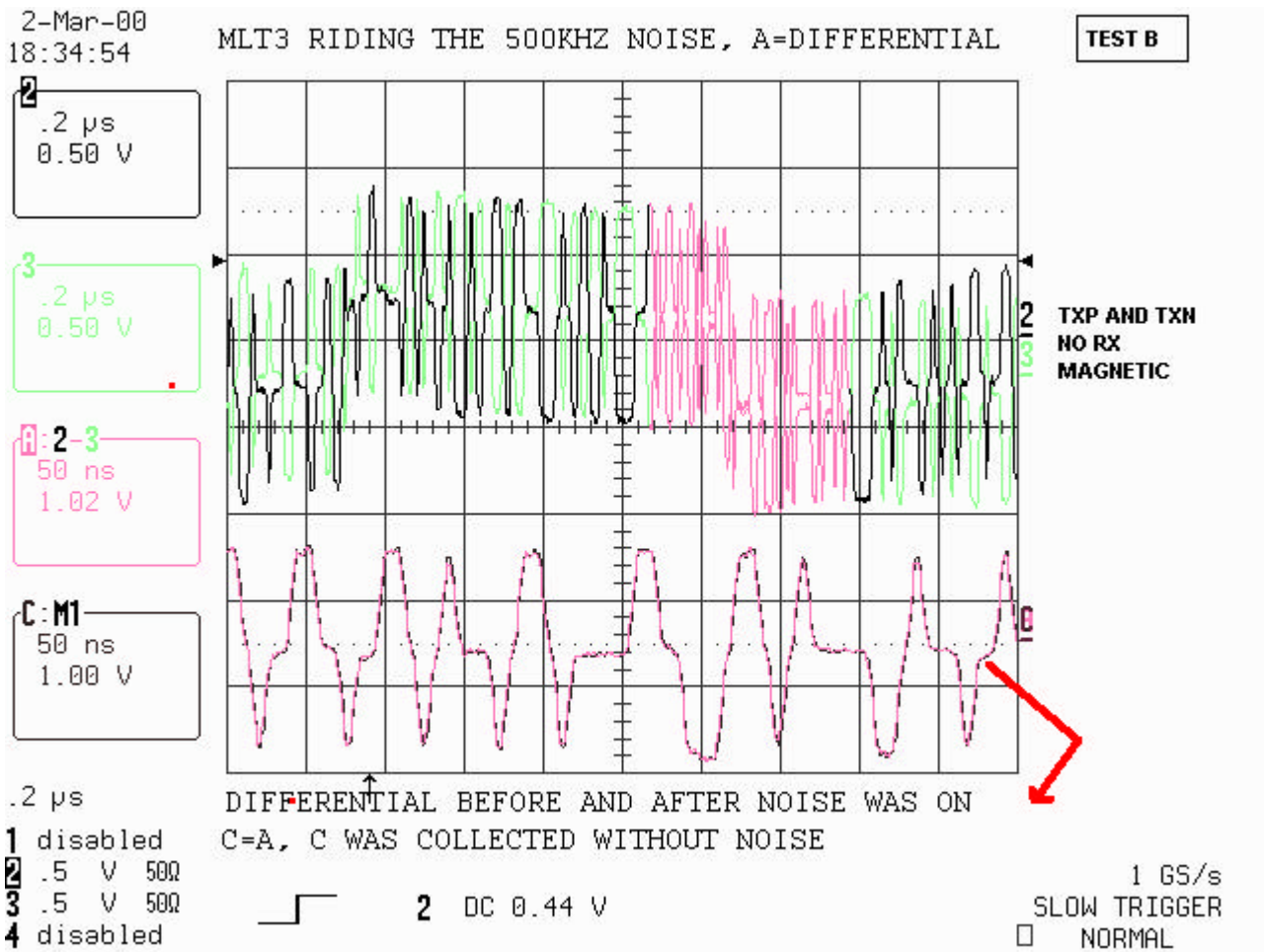
1 GS/s
SLOW TRIGGER
 NORMAL

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Signal on the Wire With Noise



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