



USB Test Report

Overall Results: 1 of 1 Tests Failed

Test Configuration Details	
Device Description	
Test Point	Device
Use Pulse Generator	No
Test Connection	Differential
Test Method	Matlab
Test Session Details	
Infiniium SW Version	04.20.0008
Infiniium Model Number	MSO9404A
Infiniium Serial Number	MY50070104
Application SW Version	3.73
Debug Mode Used	No
Last Test Date	9/17/2020 3:51:26 PM

Summary of Results

Margin Thresholds	
Warning	< 2 %
Critical	< 0 %

Pass	# Failed	# Trials	Test Name	Actual Value	Margin	Spec Range
✖	1	1	Inrush Current Test	fail	-100.0 %	Pass/Fail

Report Detail

✖ Inrush Current Test Reference: USB 2.0 Specification, Section 7.2.4.1

FAIL Test Description: | A high-power bus-powered device that is switching from a lower power configuration to a higher power configuration must not cause droop > 330mV on the Vbus at its upstream hub. The device can meet this by ensuring that changes in the capacitive load it presents do not exceed 10uF (this translates to 50.0uC as the maximum inrush current value). Note: A waiver is granted for the inrush current measured up to 150uC.

Test Limits:Pass/FailOverall Inrush Current Testfail

Result Details:

Result Details

Worst Results478.2320 uC**Region Results**Region1: 0.01085 uC, Region2: 0.00815 uC, Region3: 0.1048 uC, Region4: 0.03095 uC, Region5: 0.0191 uC, Region6: 0.0023 uC, Region7: 0.00285 uC, Region8: 0.0024 uC, Region9: 0.008 uC, Region10: 0.02615 uC, Region11: 0.0278 uC, Region12: 0.0022 uC, Region13: 0.015 uC, Region14: 0.02065 uC, Region15: 0.00025 uC, Region16: 0.00095 uC, Region17: 0.0063 uC, Region18: 0.0033 uC, Region19: 0.0179 uC, Region20: 0.01025 uC, Region21: 0.01305 uC, Region22: 0.0156 uC, Region23: 0.00365 uC, Region24: 0.00185 uC, Region25: 0.00225 uC, Region26: 0.0057 uC, Region27: 0.00705 uC, Region28: 0.00725 uC, Region29: 0.00315 uC, Region30: 0.013 uC, Region31: 0.0115 uC, Region32: 0.08755 uC, Region33: 0.0252 uC, Region34: 0.00335 uC, Region35: 0.0024 uC, Region36: 0.00625 uC, Region37: 0.0106 uC, Region38: 0.0157 uC, Region39: 0.0046 uC, Region40: 0.01325 uC, Region41: 0.0152 uC, Region42: 0.00365 uC, Region43: 0.00045 uC, Region44: 0.0019 uC, Region45: 0.01025 uC, Region46: 0.0027 uC, Region47: 0.0025 uC, Region48: 0.05805 uC, Region49: 0.0054 uC, Region50: 0.0556 uC, Region51: 0.0401 uC, Region52: 0.00275 uC, Region53: 0.03195 uC, Region54: 0.00065 uC, Region55: 0.00165 uC, Region56: 0.00245 uC, Region57: 0.0487 uC, Region58: 0.015 uC, Region59: 0.01595 uC, Region60: 0.0148 uC, Region61: 0.00055 uC, Region62: 0.08345 uC, Region63: 0.0253 uC, Region64: 0.0153 uC, Region65: 0.00345 uC, Region66: 0.00275 uC, Region67: 0.00505 uC, Region68: 0.0098 uC, Region69: 0.00805 uC, Region70: 0.00575 uC, Region71: 0.0093 uC, Region72: 0.0027 uC, Region73: 0.00285 uC, Region74: 0.00205 uC, Region75: 0.0013 uC, Region76: 0.0035 uC, Region77: 0.0002 uC, Region78: 0.1195 uC, Region79: 0.0018 uC, Region80: 0.0069 uC, Region81: 0.00575 uC, Region82: 0.0019 uC, Region83: 0.0002 uC, Region84: 0.00305 uC, Region85: 0.0047 uC, Region86: 0.01595 uC, Region87: 0.04495 uC, Region88: 0.0057 uC, Region89: 0.0154 uC, Region90: 0.0455 uC, Region91: 0.0742 uC, Region92: 0.01915 uC, Region93: 0.0006 uC, Region94: 0.00905 uC, Region95: 0.0066 uC, Region96: 0.0089 uC, Region97: 0.00495 uC, Region98: 0.00325 uC, Region99: 0.0108 uC, Region100: 0.0058 uC, Region101: 0.0005 uC, Region102: 0.00825 uC, Region103: 0.0508 uC, Region104: 0.00085 uC, Region105: 0.0446 uC, Region106: 0.0396 uC, Region107: 0.0066 uC, Region108: 0.01285 uC, Region109: 0.01155 uC, Region110: 0.0013 uC, Region111: 0.03085 uC, Region112: 0.0444 uC, Region113: 0.05005 uC, Region114: 0.0152 uC, Region115: 0.002 uC, Region116: 0.01225 uC, Region117: 0.0029 uC, Region118: 0.0913 uC, Region119: 0.03985 uC, Region120: 0.0074 uC, Region121: 0.0024 uC, Region122: 0.0682 uC, Region123: 0.001 uC, Region124: 0.01085 uC, Region125: 0.0501 uC, Region126: 0.00365 uC, Region127: 0.00105 uC, Region128: 0.00125 uC, Region129: 0.0103 uC, Region130: 0.00345 uC, Region131: 0.00555 uC, Region132: 0.00765 uC, Region133: 0.00305 uC, Region134: 0.0268 uC, Region135: 0.00795 uC, Region136: 0.003 uC, Region137: 0.03585 uC, Region138: 0.0015 uC, Region139: 0.0006 uC, Region140: 0.01755 uC, Region141: 0.00345 uC, Region142: 0.0585 uC, Region143: 0.0027 uC, Region144: 0.0006 uC, Region145: 0.01785 uC, Region146: 0.093 uC, Region147: 0.01985 uC, Region148: 0.07305 uC, Region149: 0.03955 uC, Region150: 0.01525 uC, Region151: 0.00335 uC, Region152: 0.0133 uC, Region153: 0.00085 uC, Region154: 0.00245 uC, Region155: 0.00125 uC, Region156: 0.0159 uC, Region157: 0.0407 uC, Region158: 0.0595 uC, Region159: 0.00715 uC, Region160: 54.96 uC, Region161:

0.01615 uC, Region162: 0.0255 uC, Region163: 0.01765 uC, Region164: 0.00245 uC, Region165: 478.2 uC,
Inrush Current(See image)

Trial 1
Trial 1: Inrush Current

