



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	9/7/2020 4:33:56 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

Test Summary: 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 Results540.9370 uC**Region Results**Region1: 0.0014 uC, Region2: 0.0247 uC, Region3: 0.0019 uC, Region4: 0.00285 uC, Region5: 0.001 uC, Region6: 0.0018 uC, Region7: 0.05245 uC, Region8: 0.0021 uC, Region9: 0.00955 uC, Region10: 0.0218 uC, Region11: 0.0151 uC, Region12: 0.00165 uC, Region13: 0.01645 uC, Region14: 0.0216 uC, Region15: 0.00365 uC, Region16: 0.01165 uC, Region17: 0.01895 uC, Region18: 0.002 uC, Region19: 0.002 uC, Region20: 0.00045 uC, Region21: 0.00305 uC, Region22: 0.01525 uC, Region23: 0.0581 uC, Region24: 0.0173 uC, Region25: 0.0174 uC, Region26: 0.0024 uC, Region27: 0.0147 uC, Region28: 0.02135 uC, Region29: 0.0023 uC, Region30: 0.0269 uC, Region31: 0.0244 uC, Region32: 0.0086 uC, Region33: 0.0016 uC, Region34: 0.0193 uC, Region35: 0.0013 uC, Region36: 0.00165 uC, Region37: 0.00545 uC, Region38: 0.01905 uC, Region39: 0.012 uC, Region40: 0.0156 uC, Region41: 0.00165 uC, Region42: 0.0199 uC, Region43: 0.01095 uC, Region44: 0.0072 uC, Region45: 0.00885 uC, Region46: 0.0242 uC, Region47: 0.02295 uC, Region48: 0.00295 uC, Region49: 0.0096 uC, Region50: 0.00165 uC, Region51: 0.00245 uC, Region52: 0.02765 uC, Region53: 0.0013 uC, Region54: 0.0194 uC, Region55: 0.00085 uC, Region56: 0.0016 uC, Region57: 0.00265 uC, Region58: 0.0037 uC, Region59: 0.01395 uC, Region60: 0.0023 uC, Region61: 0.00015 uC, Region62: 5e-005 uC, Region63: 0.01955 uC, Region64: 0.0148 uC, Region65: 0.00025 uC, Region66: 0.00025 uC, Region67: 0.0012 uC, Region68: 0.00045 uC, Region69: 0.0016 uC, Region70: 0.06125 uC, Region71: 0.04155 uC, Region72: 0.01015 uC, Region73: 0.0245 uC, Region74: 0.0064 uC, Region75: 0.00345 uC, Region76: 0.00105 uC, Region77: 0.02135 uC, Region78: 0.00295 uC, Region79: 0.0018 uC, Region80: 0.0137 uC, Region81: 0.00075 uC, Region82: 0.04225 uC, Region83: 0.0084 uC, Region84: 0.01735 uC, Region85: 0.0014 uC, Region86: 0.0386 uC, Region87: 0.03445 uC, Region88: 0.00225 uC, Region89: 0.002 uC, Region90: 0.0459 uC, Region91: 0.08235 uC, Region92: 0.00065 uC, Region93: 0.0307 uC, Region94: 0.00295 uC, Region95: 0.01905 uC, Region96: 0.0006 uC, Region97: 0.00115 uC, Region98: 0.00315 uC, Region99: 0.00275 uC, Region100: 0.00385 uC, Region101: 0.0037 uC, Region102: 0.00045 uC, Region103: 0.0022 uC, Region104: 0.00245 uC, Region105: 0.0213 uC, Region106: 0.01875 uC, Region107: 0.01475 uC, Region108: 0.00025 uC, Region109: 0.05045 uC, Region110: 0.0185 uC, Region111: 0.01635 uC, Region112: 0.00515 uC, Region113: 0.00695 uC, Region114: 0.00295 uC, Region115: 0.0328 uC, Region116: 0.03285 uC, Region117: 0.0354 uC, Region118: 0.0021 uC, Region119: 0.0391 uC, Region120: 0.00105 uC, Region121: 0.1066 uC, Region122: 0.00315 uC, Region123: 0.014 uC, Region124: 0.00115 uC, Region125: 0.00865 uC, Region126: 0.1173 uC, Region127: 0.02085 uC, Region128: 0.02295 uC, Region129: 0.0018 uC, Region130: 0.0387 uC, Region131: 0.00705 uC, Region132: 0.0035 uC, Region133: 0.00355 uC, Region134: 0.0235 uC, Region135: 0.0025 uC, Region136: 0.01035 uC, Region137: 0.00115 uC, Region138: 0.00095 uC, Region139: 0.00045 uC, Region140: 0.00285 uC, Region141: 0.0157 uC, Region142: 0.0126 uC, Region143: 0.00785 uC, Region144: 0.04205 uC, Region145: 0.00305 uC, Region146: 0.004 uC, Region147: 0.02165 uC, Region148: 0.0184 uC, Region149: 0.01565 uC, Region150: 0.0038 uC, Region151: 0.04115 uC, Region152: 0.03745 uC, Region153: 0.01345 uC, Region154: 0.0025 uC, Region155: 0.0014 uC, Region156: 0.00275 uC, Region157: 0.0023 uC, Region158: 0.00125 uC, Region159: 0.0101 uC, Region160: 0.01915 uC,

Region161: 0.05835 uC, Region162: 0.014 uC, Region163: 0.0475 uC, Region164: 0.01 uC, Region165: 0.00565 uC, Region166: 0.0144 uC, Region167: 0.00465 uC, Region168: 0.0017 uC, Region169: 0.00285 uC, Region170: 0.0299 uC, Region171: 0.0018 uC, Region172: 0.0281 uC, Region173: 0.0397 uC, Region174: 0.04025 uC, Region175: 0.00275 uC, Region176: 55.04 uC, Region177: 0.0781 uC, Region178: 0.0031 uC, Region179: 0.00985 uC, Region180: 540.9 uC, **Inrush Current**(See image)

Trial 1
Trial 1: Inrush Current

