Vision Detector PCB Panel Assembly Functional Test
Test Date: 2021-05-10 13:28:30
Supplier: Jabil
Technician: User1
Customer: Siemens
Test Station: OSP_PCB_FT_01
Test Software Revision: 04
Test Parameters Match Initialization File: FALSE
Year of Manufacture: 2020
Siemens PCBA Part Number: 10752680
Siemens PCBA Revision: 03
Panel Serial Number: RBL03W13154 - Fail
PCB D Serial Number: RBL03W13154D - Pass **Not all Test Performed. No Data Written to EEPROM!**
PCB C Serial Number: RBL03W13154C - Pass **Not all Test Performed. No Data Written to EEPROM!**
PCB B Serial Number: RBL03W13154B - Pass **Not all Test Performed. No Data Written to EEPROM!**
PCB A Serial Number: RBL03W13154A - Fail

Test Description:
Test 1 - RF Amp & ASIC Trigger Test, ASIC 0
PCB Serial Number:
RBL03W13154D
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 0.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 23.937, IC2: 24.125; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 25.937, IC2: 25.937; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 2 - RF Amp & ASIC Trigger Test, ASIC 1
PCB Serial Number:
RBL03W13154D
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 10.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 23.937, IC2: 24.125; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 25.937, IC2: 25.937; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 3 - RF Amp & ASIC Trigger Test, ASIC 2
PCB Serial Number:
RBL03W13154D
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 10.000000 (mV) in 10.000000 (mV) Increments

Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 23.937, IC2: 24.125; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 25.937, IC2: 25.937; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 4 - RF Amp & ASIC Trigger Test, ASIC 3
PCB Serial Number:
RBL03W13154D
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 10.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 23.937, IC2: 24.125; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 25.937, IC2: 25.937; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 5 - RF Amp & ASIC Trigger Test, ASIC 4
PCB Serial Number:
RBL03W13154D
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 10.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 23.937, IC2: 24.125; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 25.937, IC2: 25.937; Temp OK - Pass
Test Result:
Pass

Test Description:

Test 6 - RF Amp & ASIC Trigger Test, ASIC 5
PCB Serial Number:
RBL03W13154D
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 10.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 23.937, IC2: 24.125; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 25.937, IC2: 25.937; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 7 - RF Amp & ASIC Trigger Test, ASIC 6
PCB Serial Number:
RBL03W13154D
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 10.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 23.937, IC2: 24.125; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 25.937, IC2: 25.937; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 8 - RF Amp & ASIC Trigger Test, ASIC 7
PCB Serial Number:
RBL03W13154D
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 10.000000 (mV) in 10.000000 (mV) Increments
Units:

mVDC
Starting Temperature (Max 50.00 C):
IC1: 23.937, IC2: 24.125; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 25.937, IC2: 25.937; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 9 - RF Amp & ASIC Trigger Test, ASIC 0
PCB Serial Number:
RBL03W13154C
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 10.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 24.437, IC2: 24.375; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 26.312, IC2: 26.062; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 10 - RF Amp & ASIC Trigger Test, ASIC 1
PCB Serial Number:
RBL03W13154C
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 10.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 24.437, IC2: 24.375; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 26.312, IC2: 26.062; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 11 - RF Amp & ASIC Trigger Test, ASIC 2

PCB Serial Number:
RBL03W13154C
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 0.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 24.437, IC2: 24.375; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 26.312, IC2: 26.062; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 12 - RF Amp & ASIC Trigger Test, ASIC 3
PCB Serial Number:
RBL03W13154C
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 10.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 24.437, IC2: 24.375; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 26.312, IC2: 26.062; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 13 - RF Amp & ASIC Trigger Test, ASIC 4
PCB Serial Number:
RBL03W13154C
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 0.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC

Starting Temperature (Max 50.00 C):
IC1: 24.437, IC2: 24.375; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 26.312, IC2: 26.062; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 14 - RF Amp & ASIC Trigger Test, ASIC 5
PCB Serial Number:
RBL03W13154C
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 0.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 24.437, IC2: 24.375; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 26.312, IC2: 26.062; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 15 - RF Amp & ASIC Trigger Test, ASIC 6
PCB Serial Number:
RBL03W13154C
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 10.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 24.437, IC2: 24.375; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 26.312, IC2: 26.062; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 16 - RF Amp & ASIC Trigger Test, ASIC 7
PCB Serial Number:

RBL03W13154C
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 10.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 24.437, IC2: 24.375; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 26.312, IC2: 26.062; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 17 - RF Amp & ASIC Trigger Test, ASIC 0
PCB Serial Number:
RBL03W13154B
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 0.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 24.750, IC2: 24.875; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 27.062, IC2: 27.062; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 18 - RF Amp & ASIC Trigger Test, ASIC 1
PCB Serial Number:
RBL03W13154B
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 0.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):

IC1: 24.750, IC2: 24.875; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 27.062, IC2: 27.062; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 19 - RF Amp & ASIC Trigger Test, ASIC 2
PCB Serial Number:
RBL03W13154B
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 0.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 24.750, IC2: 24.875; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 27.062, IC2: 27.062; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 20 - RF Amp & ASIC Trigger Test, ASIC 3
PCB Serial Number:
RBL03W13154B
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 0.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 24.750, IC2: 24.875; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 27.062, IC2: 27.062; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 21 - RF Amp & ASIC Trigger Test, ASIC 4
PCB Serial Number:
RBL03W13154B

Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 10.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 24.750, IC2: 24.875; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 27.062, IC2: 27.062; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 22 - RF Amp & ASIC Trigger Test, ASIC 5
PCB Serial Number:
RBL03W13154B
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 10.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 24.750, IC2: 24.875; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 27.062, IC2: 27.062; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 23 - RF Amp & ASIC Trigger Test, ASIC 6
PCB Serial Number:
RBL03W13154B
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 0.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 24.750, IC2: 24.875; Temp OK - Pass

Ending Temperature (Max 50.00 C):
IC1: 27.062, IC2: 27.062; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 24 - RF Amp & ASIC Trigger Test, ASIC 7
PCB Serial Number:
RBL03W13154B
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Pass - Successfully triggered from 100.000000 to 0.000000 (mV) in 10.000000 (mV) Increments
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 24.750, IC2: 24.875; Temp OK - Pass
Ending Temperature (Max 50.00 C):
IC1: 27.062, IC2: 27.062; Temp OK - Pass
Test Result:
Pass

Test Description:
Test 25 - RF Amp & ASIC Trigger Test, ASIC 0
PCB Serial Number:
RBL03W13154A
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Fail
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 25.125, IC2: 25.062; Temp OK - Pass
Ending Temperature
Test Result:
Fail
Notes:
0 Pulse(s),   Pulse Width (ns): 0
I2C Communication Error: PCB4 MUX

Test Description:
Test 26 - RF Amp & ASIC Trigger Test, ASIC 1

PCB Serial Number:
RBL03W13154A
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Fail
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 25.125, IC2: 25.062; Temp OK - Pass
Ending Temperature
Test Result:
Fail
Notes:
0 Pulse(s),   Pulse Width (ns): 0
I2C Communication Error: PCB4 MUX

Test Description:
Test 27 - RF Amp & ASIC Trigger Test, ASIC 2
PCB Serial Number:
RBL03W13154A
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Fail
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 25.125, IC2: 25.062; Temp OK - Pass
Ending Temperature
Test Result:
Fail
Notes:
0 Pulse(s),   Pulse Width (ns): 0
I2C Communication Error: PCB4 MUX

Test Description:
Test 28 - RF Amp & ASIC Trigger Test, ASIC 3
PCB Serial Number:
RBL03W13154A
Test Lower Limit:
N/A

Test Upper Limit:
100.000000 (mV)
Test Measurement:
Fail
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 25.125, IC2: 25.062; Temp OK - Pass
Ending Temperature
Test Result:
Fail
Notes:
0 Pulse(s),   Pulse Width (ns): 0
I2C Communication Error: PCB4 MUX

Test Description:
Test 29 - RF Amp & ASIC Trigger Test, ASIC 4
PCB Serial Number:
RBL03W13154A
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Fail
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 25.125, IC2: 25.062; Temp OK - Pass
Ending Temperature
Test Result:
Fail
Notes:
0 Pulse(s),   Pulse Width (ns): 0
I2C Communication Error: PCB4 MUX

Test Description:
Test 30 - RF Amp & ASIC Trigger Test, ASIC 5
PCB Serial Number:
RBL03W13154A
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Fail

Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 25.125, IC2: 25.062; Temp OK - Pass
Ending Temperature
Test Result:
Fail
Notes:
0 Pulse(s),   Pulse Width (ns): 0
I2C Communication Error: PCB4 MUX

Test Description:
Test 31 - RF Amp & ASIC Trigger Test, ASIC 6
PCB Serial Number:
RBL03W13154A
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Fail
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 25.125, IC2: 25.062; Temp OK - Pass
Ending Temperature
Test Result:
Fail
Notes:
0 Pulse(s),   Pulse Width (ns): 0
I2C Communication Error: PCB4 MUX

Test Description:
Test 32 - RF Amp & ASIC Trigger Test, ASIC 7
PCB Serial Number:
RBL03W13154A
Test Lower Limit:
N/A
Test Upper Limit:
100.000000 (mV)
Test Measurement:
Fail
Units:
mVDC
Starting Temperature (Max 50.00 C):
IC1: 25.125, IC2: 25.062; Temp OK - Pass

Ending Temperature
Test Result:
Fail
Notes:
0 Pulse(s), Pulse Width (ns): 0
I2C Communication Error: PCB4 MUX

Test Parameters:
Test Station="OSP_PCB_FT_01"

[PCB Current]
Set DC Voltage (V)="5.000"
Set DC Current Limit (A)="4.000"
Upper Voltage Limit="5.100"
Lower Voltage Limit="4.900"
Power Off Upper Current Limit="2.300"
Power Off Lower Current Limit="2.100"
Power On Upper Current Limit="2.650"
Power On Lower Current Limit="2.450"
ASIC Loaded Upper Current Limit="3.000"
ASIC Loaded Lower Current Limit="2.700"

[DAC Calibration]
DAC Calibration Tolerance="0.015"
Low Voltage Value="1.000"
Mid Voltage Value="2.000"
High Voltage Value="2.600"

Overtemp Threshold="50.000"

Detector Power On Delay="0.100"

[TLE In/Out]
ASIC Off High Limit="0.100"
ASIC Off Low Limit="-0.100"
ASIC On High Limit="0.700"
ASIC On Low Limit="0.480"
ASIC Bias High Limit="2.800"
ASIC Bias Low Limit="2.500"

[RF Amp & ASIC Test & LED Reset]
Starting Pulse Amplitude (mV)="100.000"
Decreasing Trigger Delta (mV)="10.000"
Pulse Width (ns)="10.000"
Trigger Width Lower Limit (ns)="40.000"
Trigger Width Upper Limit (ns)="60.000"
Number of Acceptable Pulses="1.000"

[File Locations]
Test Report Folder Location="C:\Test Reports"
.tar File Folder Location="C:\Tars"

[Tests to Perform]
PCB Current Test="FALSE"
EEPROM Test="FALSE"

TLE In Test="FALSE"
TLE Out Test="TRUE"
RF Amps & ASICs Test="TRUE"
Reset Test="FALSE"
Calibrate DACs Test="FALSE"

[PCBs to Test]
Test PCB1="TRUE"
Test PCB2="TRUE"
Test PCB3="TRUE"
Test PCB4="TRUE"

[Part Number]
O="10748016"
R="10752680"

[Manufacturer]
A="IES"
B="Jabil"
C="Epic"
D="CV"
Z="Prototype"

[Year]
A="2009"
B="2010"
C="2011"
D="2012"
E="2013"
F="2014"
G="2015"
H="2016"
I="2017"
J="2018"
K="2019"
L="2020"
M="2021"
N="2022"
O="2023"
P="2024"
Q="2025"

[Dogbone]
10748016="standard"
10752680="dogbone"