



Vision Detector PCB Panel Assembly Functional Test

Test Date: 2021-02-23 14:47:02

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: RBL03W15449 - Fail

PCB D Serial Number: RBL03W15449D - Fail

PCB C Serial Number: RBL03W15449C - Pass **Not all Test Performed. No Data Written to EEPROM!**

PCB B Serial Number: RBL03W15449B - Pass **Not all Test Performed. No Data Written to EEPROM!**

PCB A Serial Number: RBL03W15449A - Fail

Test Description:

Test 1 - RF Amp & ASIC Trigger Test, ASIC 0

PCB Serial Number:

RBL03W15449D

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: 27.562, IC2: 27.562; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.812, IC2: 28.562; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 2 - RF Amp & ASIC Trigger Test, ASIC 1

PCB Serial Number:

RBL03W15449D

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: 27.562, IC2: 27.562; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.812, IC2: 28.562; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 3 - RF Amp & ASIC Trigger Test, ASIC 2

PCB Serial Number:

RBL03W15449D

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: 27.562, IC2: 27.562; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.812, IC2: 28.562; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 4 - RF Amp & ASIC Trigger Test, ASIC 3

PCB Serial Number:

RBL03W15449D

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: 27.562, IC2: 27.562; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.812, IC2: 28.562; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 5 - RF Amp & ASIC Trigger Test, ASIC 4

PCB Serial Number:

RBL03W15449D

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: 27.562, IC2: 27.562; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.812, IC2: 28.562; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 6 - RF Amp & ASIC Trigger Test, ASIC 5

PCB Serial Number:

RBL03W15449D

Test Lower Limit:

N/A

Test Upper Limit:

100.000000 (mV)

Test Measurement:

Fail

Units:

mVDC

Starting Temperature (Max 50.00 C):

IC1: 27.562, IC2: 27.562; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.812, IC2: 28.562; Temp OK - Pass

Test Result:

Fail

Notes:

0 Pulse(s), Pulse Width (ns): 0

Test Description:

Test 7 - RF Amp & ASIC Trigger Test, ASIC 6

PCB Serial Number:

RBL03W15449D

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: 27.562, IC2: 27.562; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.812, IC2: 28.562; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 8 - RF Amp & ASIC Trigger Test, ASIC 7

PCB Serial Number:

RBL03W15449D

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: 27.562, IC2: 27.562; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.812, IC2: 28.562; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 9 - RF Amp & ASIC Trigger Test, ASIC 0

PCB Serial Number:

RBL03W15449C

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: 27.125, IC2: 26.937; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.625, IC2: 28.250; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 10 - RF Amp & ASIC Trigger Test, ASIC 1

PCB Serial Number:

RBL03W15449C

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: 27.125, IC2: 26.937; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.625, IC2: 28.250; Temp OK - Pass

Test Result:

Pass

Test Description:

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

PCB Serial Number:

RBL03W15449C

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: 27.125, IC2: 26.937; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.625, IC2: 28.250; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 12 - RF Amp & ASIC Trigger Test, ASIC 3

PCB Serial Number:

RBL03W15449C

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: 27.125, IC2: 26.937; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.625, IC2: 28.250; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 13 - RF Amp & ASIC Trigger Test, ASIC 4

PCB Serial Number:

RBL03W15449C

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: 27.125, IC2: 26.937; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.625, IC2: 28.250; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 14 - RF Amp & ASIC Trigger Test, ASIC 5

PCB Serial Number:

RBL03W15449C

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: 27.125, IC2: 26.937; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.625, IC2: 28.250; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 15 - RF Amp & ASIC Trigger Test, ASIC 6

PCB Serial Number:

RBL03W15449C

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: 27.125, IC2: 26.937; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.625, IC2: 28.250; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 16 - RF Amp & ASIC Trigger Test, ASIC 7

PCB Serial Number:

RBL03W15449C

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: 27.125, IC2: 26.937; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.625, IC2: 28.250; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 17 - RF Amp & ASIC Trigger Test, ASIC 0

PCB Serial Number:

RBL03W15449B

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: 26.812, IC2: 26.812; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.562, IC2: 28.375; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 18 - RF Amp & ASIC Trigger Test, ASIC 1

PCB Serial Number:

RBL03W15449B

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: 26.812, IC2: 26.812; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.562, IC2: 28.375; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 19 - RF Amp & ASIC Trigger Test, ASIC 2

PCB Serial Number:

RBL03W15449B

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: 26.812, IC2: 26.812; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.562, IC2: 28.375; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 20 - RF Amp & ASIC Trigger Test, ASIC 3

PCB Serial Number:

RBL03W15449B

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: 26.812, IC2: 26.812; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.562, IC2: 28.375; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 21 - RF Amp & ASIC Trigger Test, ASIC 4

PCB Serial Number:

RBL03W15449B

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: 26.812, IC2: 26.812; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.562, IC2: 28.375; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 22 - RF Amp & ASIC Trigger Test, ASIC 5

PCB Serial Number:

RBL03W15449B

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: 26.812, IC2: 26.812; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.562, IC2: 28.375; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 23 - RF Amp & ASIC Trigger Test, ASIC 6

PCB Serial Number:

RBL03W15449B

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: 26.812, IC2: 26.812; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.562, IC2: 28.375; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 24 - RF Amp & ASIC Trigger Test, ASIC 7

PCB Serial Number:

RBL03W15449B

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: 26.812, IC2: 26.812; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.562, IC2: 28.375; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 25 - RF Amp & ASIC Trigger Test, ASIC 0

PCB Serial Number:

RBL03W15449A

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: 26.500, IC2: 26.375; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.000, IC2: 27.687; Temp OK - Pass

Test Result:

Pass

Test Description:

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

PCB Serial Number:

RBL03W15449A

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: 26.500, IC2: 26.375; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.000, IC2: 27.687; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 27 - RF Amp & ASIC Trigger Test, ASIC 2

PCB Serial Number:

RBL03W15449A

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: 26.500, IC2: 26.375; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.000, IC2: 27.687; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 28 - RF Amp & ASIC Trigger Test, ASIC 3

PCB Serial Number:

RBL03W15449A

Test Lower Limit:

N/A

Test Upper Limit:

100.000000 (mV)

Test Measurement:

Fail

Units:

mVDC

Starting Temperature (Max 50.00 C):

IC1: 26.500, IC2: 26.375; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.000, IC2: 27.687; Temp OK - Pass

Test Result:

Fail

Notes:

0 Pulse(s), Pulse Width (ns): 0

Test Description:

Test 29 - RF Amp & ASIC Trigger Test, ASIC 4

PCB Serial Number:

RBL03W15449A

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: 26.500, IC2: 26.375; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.000, IC2: 27.687; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 30 - RF Amp & ASIC Trigger Test, ASIC 5

PCB Serial Number:

RBL03W15449A

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: 26.500, IC2: 26.375; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.000, IC2: 27.687; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 31 - RF Amp & ASIC Trigger Test, ASIC 6

PCB Serial Number:

RBL03W15449A

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: 26.500, IC2: 26.375; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.000, IC2: 27.687; Temp OK - Pass

Test Result:

Pass

Test Description:

Test 32 - RF Amp & ASIC Trigger Test, ASIC 7

PCB Serial Number:

RBL03W15449A

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: 26.500, IC2: 26.375; Temp OK - Pass

Ending Temperature (Max 50.00 C):

IC1: 28.000, IC2: 27.687; Temp OK - Pass

Test Result:

Pass

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"