

## **RFVC9752 Qualification Report**

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Qualification Description	Qualification of RFVC9752 for production.				
Package Type	6 mm x 6 mm Module	Assembly Location	RFMD Beijing / RFMD Greensboro		
Qualification #	11-QUAL-1561	Date Issued	July 11, 2011		

### **Qualification Description**

The purpose of the qualification outlined in this document is to ensure that the RFVC9752 is a reliable product and meets the RFMD requirements for product quality.

## **Qualification Methodology**

The RFMD qualification process consists of a series of tests designed to stress various potential failure mechanisms. The testing is performed to ensure that RFMD's products are robust against potential failure modes that could arise from the various failure mechanisms being stressed. The qualification testing is based on JEDEC and MIL-STD test methods common to the semiconductor industry. Where applicable, qualification data taken on similar devices is used to demonstrate that the qualification requirements will be met.

#### **Qualification Results**

The RFVC9752 has passed all of the defined qualification requirements listed below and has been qualified as a reliable product. The RFVC9752 has been subjected to various device level and package level tests and has demonstrated reliable performance. The qualification test results are listed in the table below.



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### **Qualification Tests**

Test Name	Test Standard and Conditions	# Samples x # Lots	Test Results				
Temperature Characterization	JESD86 +25°C, -40°C, +85°C	3 x 3 lots	Pass				
High Temperature Operating Life	JESD22-A108 125°C, 1000 hours	22 x 3 lots	Pass				
Highly Accelerated Temperature and Humidity Stress	JESD22-A110 +110°C, 85%RH, 264 hours Preconditioning per JESD22-A113 MSL3	22 x 3 lots	Pass				
ESD Human Body Model	JESD22-A114	3 x 3 lots	Pass 4000V		Class 3A		
ESD Charged-Device Model	JESD22-C101	3 x 3 lots	Pass 1000V		Class IV		
Moisture Sensitivity Level Classification	J-STD-20 MSL3 30°C, 60% RH, 192 Hour Soak 3x Reflow at 260°C	22 x 3 lots	Pass	MSL3	260°C		
Temperature Cycling	JESD22-A104 Test Condition G: -40°C to +125°C 500 cycles Preconditioning per JESD22-A113 MSL3	22 x 3 lots	Pass				
Temperature Cycling on Board	JESD22-A104 Test Condition G: -40°C to +125°C 500 cycles Preconditioning per JESD22-A113 MSL3	22 x 3 lots	Pass				
High Temperature Storage Life	JESD22-A103 150°C, 1000 Hours	22 x 3 lots	Pass				
Component Shear	minimum 150 g (0201), 400g (0402)	5 x 3 lots	Pass				
Solderability	JESD22-B102 Condition C : 8 Hour Steam Precondition Pb-Free Process Method 1 : Dip and Look	22 x 3 lots	Pass				
Conclusion	This product has passed the RFMD Qualification Requirements for production.						