



RFMD + TriQuint

QPA3230

Product Qualification Report
QPA3230-PQ030, Revision A

Description: 1218MHz, 23dB, GaAs/GaN Power Doubler Hybrid

Package Type: SOT-115J

Process Technology: GaAs, GaN

Qualification Number: N.A.

Date issued: 09/21/2015

Test Name	Test Standard and Conditions	# Samples x # Lots	Test Results
High Temperature Operating Lifetime (HTOL)	JESD22-A108, 1000 hrs, 125°C heat-sink	80x1 79x1 80x1	Passed QBS to RFCM3316 (GaAs pHEMT)
	JESD22-A108, 1000 hrs, 110°C heat-sink	40x1 80x1 80x1	Passed QBS to TAT8888 (GaN HEMT)
Temperature Humidity with Bias (THB)	JESD22-A101, 85%RH / 85°C, connected to V+ = 24V, 1000 hours	20x1 lot	Passed QBS to RFCM3316 (GaAs pHEMT) Passed QBS to RFPD2580 (Hybrid package and GaAs pHEMT) Passed QBS to RFPD3210 (GaN HEMT)
ESD Human Body Model, DUT unbiased	JESD22-A114, three positive and negative pulses applied to each Pin 1 (RFIN), Pin 5 (V+) and Pin 9 (RFOUT). T _A =25°C	5x1 lot	Passed QBS to RFPD3210: Passed 1100V
ESD Human Body Model, DUT biased	JESD22-A114, three positive and negative pulses applied to each Pin 1 (RFIN), Pin 5 (V+) and Pin 9 (RFOUT). T _A =25°C	5x1 lot	Passed QBS to RFPD3210: Passed 1100V
ESD Human Body Model, DUT unbiased	JESD22-A114, three positive and negative pulses applied to Pin 4 (Current setting) T _A =25°C	5x1 lot	Passed 1100V
ESD Human Body Model, DUT biased	JESD22-A114, three positive and negative pulses applied to Pin 4 (Current setting) T _A =25°C	5x1 lot	Passed 1100V
Temperature Cycling	MIL-STD-883, 1010 (-40°C to +125°C), number of cycles 14, cycle time 2.5h, not connected to V+	5x1 lot	Passed QBS to RFPD3210
Transient surge	IEC1000-4-5, 10 times, 1 min intervals, positive and negative pulses applied to Pin 1(RF input), Pin 5 (V+) and Pin 9 (RF output). T _A =25°C	5x1 lot	Passed QBS to RFPD3210: 100V (RF input) 200V (V+) 300V (RF output)

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Form QAL-05-1049 Rev J

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Table with 4 columns: Test Name, Test Standard and Conditions, # Samples x # Lots, Test Results. Rows include Transient surge, Thermal shock, Drop test, Vibration test, Mechanical shock, Single tone RF overdrive, and Characterization over temperature.

Sample size and lot quantities reported are the minimum required for this qualification.

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