

RFPA 3800, RFPA3807, RFPA3809 QUALIFICATION REPORT.

Package Type		SOIC-8	Process Technology	GaAs HBT3D		
Qualification #		09-QUAL-1312	Date Issued	06/06/2010		
Purpose of Qualification		Qualification of RFPA3800/7/9 , High Power, High efficiency Linear Power Amplifier				
Test Name		Test Standard and Conditions	Samples Per Lot	Test Results		
D E V I C E	High Temperature Operating Life	JESD22-A108 125°C, DC bias, 1000 hours	22x1, 21x1, 20x1 lot RFPA3809	Pass		
	Biased Temperature Cycling	JESD22-A105 Condition B, -40 to 125°C	74 x 1 lot, QBS to RF3809	pass		
	Temperature Humidity with Bias	JESD22-A101 85%RH / 85°C, 500 hours	22 x 3 lots RFPA3807 22x1lot, 21x1 lot,18x1 lot RFPA3809	Pass		
	ESD Human Body Model	JESD22-A114	RFPA3800/7/9, 3 parts per voltage	Class 1B, pass 500V		
P A C K A G E	Bond Strength	MIL-STD-883, M2011	30 pulls x 1 lot	Pass		
	Die Shear	MIL-STD-883E, Method 2019.5	5 die x 1 lot	Pass		
	Bond Shear	AEC-Q100-001 Rev C	30 shears x 1 lot	Pass		
	Solderability	JESD22-B102, 8 hr steam aging	22 x 3 lots	Pass		
	Moisture Sensitivity Level	IPC/JEDEC J-STD-020	22x3 lots, RFPA3809	MSL2	260°C	Pass
	Temperature Cycling	JESD22-A104 Condition B, -40/+125°C, soak mode 2, 1000 cycles, loose piece	22 x 3 lots, RFPA3809 post MSL2 22x3 lots, RFPA3809 lost MSL3	Pass		
	High Temperature Storage	JESD22-A103, 150°C, 1000 hours	74 x 1 lot, QBS to RF3807	Pass		
Conclusion		This product has passed the RFMD Qualification Requirements for production.				