Customer: Nordic / nRF8002-R1Q32

**Date:** 4/3/2012

Prepared by: Ly-anne Marcelo

Package: Saw MLF 5x5x0.85 32lds

**Pad/cavity size:** 3.900 x 3.900 mm

		Name	Composition			%	gms	Density	gms	%	PPM
Molding Compound		mo EME G700						1.95	0.02722	35.53%	355,285
	Resin Type	Epoxy resi	n Resin %			9.0	0.002450			3.20%	31,976
	Filler Type		2 Filler %			84.0	0.022865			29.84%	298,439
		Phenol Resi	n %			6.50	0.001769			2.31%	23,093
		Carbon Blac	k %			0.50	0.000136			0.18%	1,776
Frame	C194F	 H						8.9	0.04005	52.28%	522,776
				Cu		97.44	0.039029			50.94%	509,406
				Fe		2.35	0.000941			1.23%	12,285
				Zn		0.13	0.000050			0.07%	653
				Р		0.08	0.000033			0.04%	431
Frame Plating	Ag							Avg. Density	0.00090	1.17%	11,696
	5			Ag			0.000896	10.50		1.17%	11,696
Die									0.00522	6.81%	68,073
Die #1	Silicon						0.005216	2.4		6.807%	68,073
Die Attach									0.00133	1.73%	17,313
Die #1	CRM 1	085Δ			Resin	16	0.000212	4.5	0.00133	0.28%	2,770
DIC #1	ORIVIT	000/	Filler		Ag	84	0.000212	7.5		1.45%	14,543
Wire						0/	ama	9.04	0.00020	0.540/	E 000
Wire Dia (no no)	0.000			O		%	gms	8.94	0.00039	0.51%	5,086
Wire Dia(mm)	0.020			Cu		99.9900 0.0030	0.000390 0.000000			0.509% 0.000%	5,086 0
				Ag Ca		0.0030					
							0.000000			0.000%	0.102
				Ni s		0.0015	0.000000			0.000%	0.076
				S Fe		0.0012	0.000000			0.000%	0.061
						0.0010	0.000000			0.000%	0.051
				Al Othoro		0.0010	0.000000			0.000%	0.051
				Others		0.0003	0.000000			0.000%	0.015
External Plating	Sn		Sn					Avg. Density	0.00151	1.98%	19,771
				Sn			0.001515	7.30		1.977%	19,771
									0.077	100.00%	1000000
								_			



Shaded blocks calculated per RoHS requirements

## Disclaimer

The calculators identified in this report are used solely for determining package and weight composition and not for any other purpose, including but not limited to RoHS compliance. These calculators are used at the request of Customer in accordance with Amkor's current Terms and Conditions. Customer acknowledges that certain data used to generate the package and weight composition are provided by third parties and may not be validated and as such, the associated calculations performed herein are unproven and may produce inconclusive results.

All information generated by the use of these calculators is provided "As Is." Amkor makes no warranty or representation, whatsoever, as to the sufficiency or accuracy of any such information it has disclosed hereunder or as to the results to be obtained therefrom and assumes no responsibility arising from any use or misuse thereof.