

**Package Weight and Material Composition**

Rev LK

**Customer :** Nordic / nRF905

**Date:** 8/29/2013

**Prepared by :** Ly-anne Marcelo

**Package:** Saw MLF 5x5x0.85 32lds

**Pad/cavity size:** 3.500 x 3.500 mm

	Name	Composition	%	gms	Density	gms	%	PPM	CAS #
<b>Molding Compound</b>	Sumitomo	EME G700 (Green)			1.95	<b>0.02964</b>	<b>40.65%</b>	<b>406,547</b>	
	Resin Type	Epoxy resin	9.0	0.002668			3.66%	36,589	N/A
	Filler Type	SiO2	84.0	0.024901			34.15%	341,500	60676-86-0
		Phenol Resin	6.50	0.001927			2.64%	26,426	N/A
		Carbon Black	0.50	0.000148			0.20%	2,033	N/A
<b>Frame</b>	C194FH				8.9	<b>0.03683</b>	<b>50.51%</b>	<b>505,100</b>	
		Cu	97.44	0.035888			49.22%	492,182	7440-50-8
		Fe	2.35	0.000866			1.19%	11,870	7439-89-6
		Zn	0.13	0.000046			0.06%	631	7440-66-6
		P	0.08	0.000030			0.04%	417	7723-14-0
<b>Frame Plating</b>	Ag				Avg. Density	<b>0.00032</b>	<b>0.44%</b>	<b>4,389</b>	
		Ag		0.000320	10.50		0.44%	4,389	7440-22-4
<b>Die</b>						<b>0.00368</b>	<b>5.04%</b>	<b>50,400</b>	
Die #1	Silicon			0.003675	2.4		5.040%	50,400	
<b>Die Attach</b>						<b>0.00088</b>	<b>1.21%</b>	<b>12,115</b>	
Die #1	AMK06	Filler	Proprietary Acrylates	13	0.000115	3.8	0.16%	1,575	N/A
			Ag	80	0.000707		0.97%	9,692	7440-22-4
			Proprietary Bismaleimide	3	0.000027		0.04%	363	N/A
			Methacrylate Ester	3	0.000027		0.04%	363	N/A
			Proprietary polymer	1	0.000009		0.01%	121	N/A
<b>Wire</b>						<b>0.00030</b>	<b>0.41%</b>	<b>4,062</b>	
Wire Dia(mm)	0.020				8.94				
			Cu	99.9900	0.000296		0.406%	4,061	7440-50-8
			Ca	0.0020	0.000000		0.000%	0.081	7440-70-2
			Ni	0.0015	0.000000		0.000%	0.061	7440-02-0
			S	0.0012	0.000000		0.000%	0.049	7704-34-9
			Fe	0.0010	0.000000		0.000%	0.041	7439-89-6
			Al	0.0010	0.000000		0.000%	0.041	7429-90-5
			Others	0.0003	0.000000		0.000%	0.012	
<b>External Plating</b>	Sn	Sn			Avg. Density	<b>0.00127</b>	<b>1.74%</b>	<b>17,387</b>	
			Sn	0.001268	7.30		1.739%	17,387	7440-31-5
						<b>0.07292</b>	<b>100.00%</b>	<b>1000000</b>	



Shaded blocks calculated per RoHS requirements

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