Package Weight and Material Composition

Rev LK

Customer : **Nordic / nRF24L01**

Date: 8/13/2013

Prepared by : Ly-anne Marcelo

Package: **Saw MLF 4x4x0.85 20lds**

Pad/cavity size: 2.800 x 2.800 mm

	Name	Composition		%	gms	Density	gms	%	PPM	CAS #
Molding Compound	Sumitomo EME G700 (Green)					1.95	**0.01888**	**38.97%**	**389,674**	
Resin Type	Epoxy resin	Resin %		9.0	0.001700			3.51%	35,071	N/A
Filler Type	SiO2	Filler %		84.0	0.015863			32.73%	327,326	60676-86-0
	Phenol Resin	%		6.50	0.001227			2.53%	25,329	N/A
	Carbon Black	%		0.50	0.000094			0.19%	1,948	N/A
Frame	C194FH					8.9	**0.02516**	**51.92%**	**519,184**	
			Cu	97.44	0.024517			50.59%	505,906	7440-50-8
			Fe	2.35	0.000591			1.22%	12,201	7439-89-6
			Zn	0.13	0.000031			0.06%	649	7440-66-6
			P	0.08	0.000021			0.04%	428	7723-14-0
Frame Plating	Ag					Avg. Density	**0.00026**	**0.54%**	**5,448**	
			Ag		0.000264	10.50		0.54%	5,448	7440-22-4
Die							**0.00246**	**5.08%**	**50,761**	
Die #1	Silicon				0.002460	2.4		5.076%	50,761	
Die Attach							**0.00068**	**1.40%**	**14,007**	
Die #1	AMK06		Proprietary Acrylates	13	0.000088	3.8		0.18%	1,821	N/A
		Filler	Ag	80	0.000543			1.12%	11,206	7440-22-4
			Proprietary Bismaleimide	3	0.000020			0.04%	420	N/A
			Methacrylate Ester	3	0.000020			0.04%	420	N/A
			Proprietary polymer	1	0.000007			0.01%	140	N/A
Wire				%	gms	8.94	**0.00013**	**0.27%**	**2,676**	
Wire Dia(mm)	0.020		Cu	99.9900	0.000130			0.268%	2,675	7440-50-8
			Ca	0.0020	0.000000			0.000%	0.054	7440-70-2
			Ni	0.0015	0.000000			0.000%	0.040	7440-02-0
			S	0.0012	0.000000			0.000%	0.032	7704-34-9
			Fe	0.0010	0.000000			0.000%	0.027	7439-89-6
			Al	0.0010	0.000000			0.000%	0.027	7429-90-5
			Others	0.0003	0.000000			0.000%	0.008	
External Plating	Sn	Sn				Avg. Density	**0.00088**	**1.83%**	**18,250**	
			Sn		0.000884	7.30		1.825%	18,250	7440-31-5
							0.04846	**100.00%**	**1000000**	

Shaded blocks calculated per RoHS requirements

Disclaimer

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