

Package Weight and Material Composition

Rev MV

Customer : Nordic / nRF51802-QFAA
Date: 11/5/2015
Prepared by : Ly-anne Marcelo
Package: Saw MLF 6x6x0.85 48lds
Pad/cavity size: 4.900 x 4.900 mm

Name		Composition		%	gms	Density	gms	%	PPM	CAS #
Molding Compound	Sumitomo	EME G700 (Green)				1.95	0.03916	35.22%	352,155	
Resin Type	Epoxy resin	Resin %		9.0	0.003524			3.17%	31,694	N/A
Filler Type	SiO2	Filler %		84.0	0.032891			29.58%	295,810	60676-86-0
	Phenol Resin	%		6.50	0.002545			2.29%	22,890	N/A
	Carbon Black	%		0.50	0.000196			0.18%	1,761	N/A
Frame	C194 FH					8.9	0.06029	54.22%	542,237	
		Cu		97.44	0.058750			52.84%	528,369	7440-50-8
		Fe		2.35	0.001417			1.27%	12,743	7439-89-6
		Zn		0.13	0.000075			0.07%	678	7440-66-6
		P		0.08	0.000050			0.04%	447	7723-14-0
Frame Plating	Ag					Avg. Density	0.00114	1.02%	10,218	
		Ag		100.00%	0.001136	10.50		1.02%	10,218	7440-22-4
Die							0.00653	5.88%	58,764	
Die #1	Silicon				0.006534	2.4		5.876%	58,764	
Die Attach							0.00131	1.18%	11,775	
Die #1	AMK06	Filler	Proprietary Acrylates	13	0.000170	3.8		0.15%	1,531	N/A
			Ag	80	0.001047			0.94%	9,420	7440-22-4
			Proprietary Bismaleimide	3	0.000039			0.04%	353	N/A
			Methacrylate Ester	3	0.000039			0.04%	353	N/A
			Proprietary polymer	1	0.000013			0.01%	118	N/A
Wire	Heraeus					8.9	0.00039	0.35%	3,520	
Wire Dia(mm)	0.020		Cu	99.9900	0.000391			0.352%	3,520	7440-50-8
			Ag	0.0030	0.000000			0.000%	0	7440-22-4
			Ca	0.0020	0.000000			0.000%	0.070	7440-70-2
			Ni	0.0015	0.000000			0.000%	0.053	7440-02-0
			S	0.0012	0.000000			0.000%	0.042	7704-34-9
			Fe	0.0010	0.000000			0.000%	0.035	7439-89-6
			Al	0.0010	0.000000			0.000%	0.035	7429-90-5
			Others	0.0003	0.000000			0.000%	0.011	
External Plating	Sn	Sn				Avg. Density	0.00237	2.13%	21,331	
			Sn	100.00%	0.002372	7.30		2.133%	21,331	7440-31-5
							0.11119	100.00%	1000000	

Shaded blocks calculated per RoHS requirements



Disclaimer

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