



Material Content Data Sheet



Sales Product Name		SPW12N50C3		Issued		29. August 2013		
MA#		MA000364283						
Package		PG-TO247-3-41		Weight*		6047.81 mg		
Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip	inorganic material	silicon	7440-21-3	7.017	0.12	0.12	1160	1160
leadframe	non noble metal	iron	7439-89-6	0.530	0.01		88	
	inorganic material	phosphorus	7723-14-0	0.159	0.00		26	
	non noble metal	copper	7440-50-8	529.068	8.75	8.76	87481	87595
wire	non noble metal	aluminium	7429-90-5	2.480	0.04	0.04	410	410
encapsulation	organic material	carbon black	1333-86-4	20.016	0.33		3310	
	plastics	epoxy resin	-	380.304	6.29		62883	
	inorganic material	silicondioxide	60676-86-0	1601.280	26.48	33.10	264770	330963
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5270	5270
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4806	4806
solder	non noble metal	antimony	7440-36-0	0.353	0.01		58	
	noble metal	silver	7440-22-4	0.883	0.01		146	
	non noble metal	tin	7440-31-5	2.296	0.04	0.06	380	584
heatspreader	inorganic material	phosphorus	7723-14-0	1.033	0.02		171	
	non noble metal	iron	7439-89-6	3.442	0.06		569	
	non noble metal	copper	7440-50-8	3438.006	56.83	56.91	568472	569212
*deviation	< 10%		Sum in total:			100,00		1000000

Important Remarks:

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