



Material Content Data Sheet



Sales Product Name		SPW20N60C3		Issued		20. July 2018		
MA#		MA001385256						
Package		PG-TO247-3-41		Weight*		6054.87 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	12.312	0.20	0.20	2033	2033
leadframe	non noble metal	iron	7439-89-6	0.530	0.01		87	
	inorganic material	phosphorus	7723-14-0	0.159	0.00		26	
	non noble metal	copper	7440-50-8	529.068	8.74	8.75	87379	87492
wire	non noble metal	aluminium	7429-90-5	43.714	0.72	0.72	7220	7220
encapsulation	organic material	carbon black	1333-86-4	19.603	0.32		3238	
	plastics	epoxy resin	-	372.457	6.15		61514	
	inorganic material	silicondioxide	60676-86-0	1568.241	25.90	32.37	259005	323757
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5264	5264
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4800	4800
solder	non noble metal	antimony	7440-36-0	0.537	0.01		89	
	noble metal	silver	7440-22-4	1.342	0.02		222	
	non noble metal	tin	7440-31-5	3.489	0.06	0.09	576	887
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	56.78	56.86	567807	568547
*deviation	< 10%		Sum in total:			100.00		1000000

Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

This product is in compliance with EU Directive 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption

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