



Material Content Data Sheet



Sales Product Name		SPP20N60S5		Issued		1. August 2018		
MA#		MA000639312						
Package		PG-TO220-3-1		Weight*		2035.17 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	12.785	0.63	0.63	6282	6282
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		401	
	non noble metal	copper	7440-50-8	815.335	40.06	40.11	400621	401142
	non noble metal	aluminium	7429-90-5	2.865	0.14	0.14	1408	1408
wire	non noble metal	aluminium	7429-90-5	2.865	0.14	0.14	1408	1408
encapsulation	organic material	carbon black	1333-86-4	5.857	0.29		2878	
	plastics	epoxy resin	-	111.276	5.47		54677	
	inorganic material	silicondioxide	60676-86-0	468.532	23.02	28.78	230218	287773
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10546	10546
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1	
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121
solder	non noble metal	antimony	7440-36-0	0.552	0.03		271	
	noble metal	silver	7440-22-4	1.380	0.07		678	
	non noble metal	tin	7440-31-5	3.588	0.18	0.28	1763	2712
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		290	
	non noble metal	copper	7440-50-8	589.466	28.96	29.00	289639	290016
*deviation	< 10%		Sum in total:			100.00		1000000

Important Remarks:

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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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