



Material Content Data Sheet



Sales Product Name		SPP15N60C3		Issued		19. July 2016		
MA#		MA000977764						
Package		PG-TO220-3-1		Weight*		2036.41 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	9.195	0.45	0.45	4515	4515
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		401	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	copper	7440-50-8	815.335	40.04	40.09	400378	400900
wire	non noble metal	aluminium	7429-90-5	26.931	1.32	1.32	13225	13225
encapsulation	organic material	carbon black	1333-86-4	5.676	0.28		2787	
	plastics	epoxy resin	-	107.849	5.30		52961	
	inorganic material	silicondioxide	60676-86-0	454.101	22.30	27.88	222992	278740
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10539	10539
plating	non noble metal	nickel	7440-02-0	0.244	0.01		120	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	120
solder	non noble metal	antimony	7440-36-0	0.432	0.02		212	
	noble metal	silver	7440-22-4	1.080	0.05		530	
	non noble metal	tin	7440-31-5	2.807	0.14	0.21	1378	2120
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		290	
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	copper	7440-50-8	589.466	28.95	28.99	289464	289841
*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 2011/65/EU (RoHS) and does not use any exemption.

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