



Material Content Data Sheet



Sales Product Name		SPP04N50C3		Issued		1. August 2018		
MA#		MA000639324						
Package		PG-TO220-3-1		Weight*		2030.67 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	3.265	0.16	0.16	1608	1608
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		402	
	non noble metal	copper	7440-50-8	815.335	40.14	40.19	401509	402032
	non noble metal	aluminium	7429-90-5	0.840	0.04	0.04	414	414
wire	non noble metal	aluminium	7429-90-5	0.840	0.04	0.04	414	414
encapsulation	organic material	carbon black	1333-86-4	5.961	0.29		2936	
	plastics	epoxy resin	-	113.268	5.58		55779	
	inorganic material	silicondioxide	60676-86-0	476.918	23.49	29.36	234857	293572
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10569	10569
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	0.208	0.01		103	
	noble metal	silver	7440-22-4	0.521	0.03		256	
	non noble metal	tin	7440-31-5	1.353	0.07	0.11	666	1025
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		291	
	non noble metal	copper	7440-50-8	589.466	29.03	29.07	290281	290659
*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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