



Material Content Data Sheet



Sales Product Name		SPP12N50C3		Issued		1. August 2018		
MA#		MA001709512						
Package		PG-TO220-3-123		Weight*		2027.53 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	0.35	0.35	3461	3461
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		403	
	non noble metal	copper	7440-50-8	815.335	40.20	40.25	402132	402656
	non noble metal	aluminium	7429-90-5	1.527	0.08	0.08	753	753
wire	non noble metal	aluminium	7429-90-5	1.527	0.08	0.08	753	753
encapsulation	organic material	carbon black	1333-86-4	2.342	0.12		1155	
	plastics	epoxy resin	-	67.929	3.35		33503	
	inorganic material	silicondioxide	60676-86-0	515.324	25.42	28.89	254164	288822
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10586	10586
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870
solder	non noble metal	antimony	7440-36-0	0.353	0.02		174	
	noble metal	silver	7440-22-4	0.883	0.04		436	
	non noble metal	tin	7440-31-5	2.296	0.11	0.17	1132	1742
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	29.07	29.11	290732	291110
*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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