



Material Content Data Sheet



Sales Product Name		SPP04N50C3		Issued		1. August 2018		
MA#		MA001709376						
Package		PG-TO220-3-123		Weight*		2025.64 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	1612	1612
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	40.24	40.29	402508	403032
	non noble metal	aluminium	7429-90-5	0.696	0.03	0.03	343	343
wire	non noble metal	aluminium	7429-90-5	0.696	0.03	0.03	343	343
encapsulation	organic material	carbon black	1333-86-4	2.359	0.12		1165	
	plastics	epoxy resin	-	68.409	3.38		33772	
	inorganic material	silicondioxide	60676-86-0	518.968	25.62	29.12	256201	291138
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10595	10595
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	871	871
solder	non noble metal	antimony	7440-36-0	0.208	0.01		103	
	noble metal	silver	7440-22-4	0.521	0.03		257	
	non noble metal	tin	7440-31-5	1.353	0.07	0.11	668	1028
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	29.10	29.14	291003	291381
*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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