



Material Content Data Sheet



Sales Product Name		SPP04N80C3		Issued		20. July 2018		
MA#		MA001610302						
Package		PG-TO220-3-123		Weight*		2025.96 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	3.894	0.19	0.19	1922	1922
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		403	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	copper	7440-50-8	815.335	40.24	40.29	402443	402967
wire	non noble metal	aluminium	7429-90-5	0.694	0.03	0.03	343	343
encapsulation	organic material	carbon black	1333-86-4	2.357	0.12		1163	
	plastics	epoxy resin	-	68.342	3.37		33733	
	inorganic material	silicondioxide	60676-86-0	518.458	25.59	29.08	255907	290803
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10594	10594
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	871	871
solder	non noble metal	antimony	7440-36-0	0.236	0.01		117	
	noble metal	silver	7440-22-4	0.590	0.03		291	
	non noble metal	tin	7440-31-5	1.535	0.08	0.12	758	1166
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		291	
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	copper	7440-50-8	589.466	29.10	29.14	290956	291334
*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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