



Material Content Data Sheet



Sales Product Name		SPA04N80C3		Issued		27. July 2016		
MA#		MA000452862						
Package		PG-TO220-3-111		Weight*		2245.50 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	0.17	0.17	1734	1734
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		306	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		92	
	non noble metal	copper	7440-50-8	686.221	30.56	30.60	305599	305997
wire	non noble metal	aluminium	7429-90-5	6.973	0.31	0.31	3105	3105
encapsulation	organic material	carbon black	1333-86-4	2.235	0.10		995	
	plastics	epoxy resin	-	207.876	9.26		92574	
	inorganic material	silicondioxide	60676-86-0	894.123	39.82	49.18	398184	491754
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3537	3537
plating	non noble metal	nickel	7440-02-0	0.305	0.01		136	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	136
solder	non noble metal	antimony	7440-36-0	0.236	0.01		105	
	noble metal	silver	7440-22-4	0.590	0.03		263	
	non noble metal	tin	7440-31-5	1.535	0.07	0.11	684	1052
heatspreader	non noble metal	iron	7439-89-6	0.433	0.02		193	
	inorganic material	phosphorus	7723-14-0	0.130	0.01		58	
	non noble metal	copper	7440-50-8	432.110	19.24	19.27	192434	192685
*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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