



Material Content Data Sheet



Sales Product Name		SPA20N60C3		Issued		10. May 2016		
MA#		MA000995178						
Package		PG-TO220-3-111		Weight*		2263.30 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	12.312	0.54	0.54	5440	5440
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		304	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		91	
	non noble metal	copper	7440-50-8	686.221	30.32	30.36	303195	303590
wire	non noble metal	aluminium	7429-90-5	26.432	1.17	1.17	11679	11679
encapsulation	organic material	carbon black	1333-86-4	2.256	0.10		997	
	plastics	epoxy resin	-	205.926	9.10		90985	
	inorganic material	silicondioxide	60676-86-0	882.968	39.02	48.22	390125	482108
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3509	3509
plating	non noble metal	nickel	7440-02-0	0.305	0.01		135	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	135
solder	non noble metal	antimony	7440-36-0	0.537	0.02		237	
	noble metal	silver	7440-22-4	1.342	0.06		593	
	non noble metal	tin	7440-31-5	3.489	0.15	0.23	1541	2371
heatspreader	non noble metal	iron	7439-89-6	0.433	0.02		191	
	inorganic material	phosphorus	7723-14-0	0.130	0.01		57	
	non noble metal	copper	7440-50-8	432.110	19.09	19.12	190920	191168
*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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