



Material Content Data Sheet



Sales Product Name		SGP02N120		Issued		27. September 2017		
MA#		MA000820246						
Package		PG-TO220-3-1		Weight*		2030.21 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	2.530	0.12	0.12	1246	1246
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		402	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	copper	7440-50-8	815.335	40.17	40.22	401600	402123
wire	non noble metal	aluminium	7429-90-5	0.717	0.04	0.04	353	353
encapsulation	organic material	carbon black	1333-86-4	5.970	0.29		2940	
	plastics	epoxy resin	-	113.424	5.59		55868	
	inorganic material	silicondioxide	60676-86-0	477.573	23.52	29.40	235233	294041
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10572	10572
plating	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121
	inorganic material	phosphorus	7723-14-0	0.001	0.00		1	
solder	non noble metal	antimony	7440-36-0	0.166	0.01		82	
	noble metal	silver	7440-22-4	0.415	0.02		205	
	non noble metal	tin	7440-31-5	1.080	0.05	0.08	532	819
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	29.03	29.07	290347	290725
*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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