



Material Content Data Sheet



Sales Product Name		SGP15N120		Issued		31. July 2018		
MA#		MA000694908						
Package		PG-TO220-3-1		Weight*		2034.75 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	11.873	0.58	0.58	5835	5835
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		401	
	non noble metal	copper	7440-50-8	815.335	40.08	40.13	400705	401226
	non noble metal	aluminium	7429-90-5	2.739	0.13	0.13	1346	1346
wire	non noble metal	aluminium	7429-90-5	2.739	0.13	0.13	1346	1346
encapsulation	organic material	carbon black	1333-86-4	5.866	0.29		2883	
	plastics	epoxy resin	-	111.456	5.48		54776	
	inorganic material	silicondioxide	60676-86-0	469.288	23.06	28.83	230638	288297
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10548	10548
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1	
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121
solder	non noble metal	antimony	7440-36-0	0.519	0.03		255	
	noble metal	silver	7440-22-4	1.297	0.06		637	
	non noble metal	tin	7440-31-5	3.371	0.17	0.26	1657	2549
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		290	
	non noble metal	copper	7440-50-8	589.466	28.97	29.01	289701	290078
*deviation	< 10%		Sum in total:			100.00		1000000

Important Remarks:

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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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