



Material Content Data Sheet



Sales Product Name		SPP15P10P H		Issued		26. September 2017		
MA#		MA000669550						
Package		PG-TO220-3-1		Weight*		2030.81 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	3.612	0.18	0.18	1779	1779
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	40.13	40.18	401482	402006
wire	non noble metal	aluminium	7429-90-5	1.525	0.08	0.08	751	751
encapsulation	organic material	carbon black	1333-86-4	5.953	0.29		2931	
	plastics	epoxy resin	-	113.099	5.57		55691	
	inorganic material	silicondioxide	60676-86-0	476.205	23.45	29.31	234491	293113
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10568	10568
plating	non noble metal	nickel	7440-02-0	0.244	0.01		120	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	120
solder	non noble metal	antimony	7440-36-0	0.208	0.01		102	
	noble metal	silver	7440-22-4	0.520	0.03		256	
	non noble metal	tin	7440-31-5	1.351	0.07	0.11	665	1023
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	290262	290640
*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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