



Material Content Data Sheet



Sales Product Name		SPP15P10P H		Issued		25. January 2018		
MA#		MA001726362						
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	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		402	
	non noble metal	copper	7440-50-8	815.335	40.14	40.19	401483	402006
	non noble metal	aluminium	7429-90-5	1.509	0.07	0.07	743	743
wire	non noble metal	aluminium	7429-90-5	1.509	0.07	0.07	743	743
encapsulation	organic material	carbon black	1333-86-4	5.953	0.29		2931	
	plastics	epoxy resin	-	113.101	5.57		55693	
	inorganic material	silicondioxide	60676-86-0	476.216	23.45	29.31	234496	293120
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10568	10568
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	0.208	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	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		291	
	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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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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