



Material Content Data Sheet



Sales Product Name		IPP200N15N3 G		Issued		24. January 2018		
MA#		MA001281792						
Package		PG-TO220-3-123		Weight*		2027.84 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	6.312	0.31	0.31	3113	3113
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		403	
	non noble metal	copper	7440-50-8	815.335	40.21	40.26	402068	402592
	non noble metal	aluminium	7429-90-5	5.326	0.26	0.26	2626	2626
wire	non noble metal	aluminium	7429-90-5	5.326	0.26	0.26	2626	2626
encapsulation	organic material	carbon black	1333-86-4	2.331	0.12		1150	
	plastics	epoxy resin	-	67.611	3.33		33342	
	inorganic material	silicondioxide	60676-86-0	512.913	25.29	28.74	252936	287428
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10584	10584
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870
solder	non noble metal	antimony	7440-36-0	0.349	0.02		172	
	noble metal	silver	7440-22-4	0.873	0.04		431	
	non noble metal	tin	7440-31-5	2.270	0.11	0.17	1119	1722
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	29.07	29.11	290687	291065
*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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