



Material Content Data Sheet



Sales Product Name				IPP110N20N3 G		Issued		27. September 2017	
MA#				MA000811282					
Package				PG-TO220-3-1		Weight*		2038.32 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	17.562	0.86	0.86	8616	8616	
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		401		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120		
	non noble metal	copper	7440-50-8	815.335	40.00	40.05	400003	400524	
wire	non noble metal	aluminium	7429-90-5	11.931	0.59	0.59	5853	5853	
encapsulation	organic material	carbon black	1333-86-4	5.733	0.28		2813		
	plastics	epoxy resin	-	108.926	5.34		53439		
	inorganic material	silicondioxide	60676-86-0	458.636	22.50	28.12	225007	281259	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10529	10529	
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	0.719	0.04		353		
	noble metal	silver	7440-22-4	1.799	0.09		882		
	non noble metal	tin	7440-31-5	4.676	0.23	0.36	2294	3529	
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		290		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	copper	7440-50-8	589.466	28.92	28.96	289192	289569	
*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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