



Material Content Data Sheet



Sales Product Name				IPP023N04N G		Issued		25. January 2018	
MA#				MA000787246					
Package				PG-TO220-3-1		Weight*		2031.77 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	4.425	0.22	0.22	2178	2178	
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	40.12	40.17	401290	401813	
	non noble metal	aluminium	7429-90-5	6.448	0.32	0.32	3174	3174	
wire	non noble metal	aluminium	7429-90-5	6.448	0.32	0.32	3174	3174	
encapsulation	organic material	carbon black	1333-86-4	5.901	0.29		2905		
	plastics	epoxy resin	-	112.128	5.52		55187		
	inorganic material	silicondioxide	60676-86-0	472.118	23.24	29.05	232368	290460	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10563	10563	
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	0.242	0.01		119		
	noble metal	silver	7440-22-4	0.604	0.03		297		
	non noble metal	tin	7440-31-5	1.571	0.08	0.12	773	1189	
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	29.01	29.05	290124	290502	
*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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