



Material Content Data Sheet



Sales Product Name		IPP023N04N G		Issued		27. September 2017		
MA#		MA000787446						
Package		PG-TO220-3-123		Weight*		2026.79 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	2183	2183
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	40.23	40.28	402281	402805
	non noble metal	aluminium	7429-90-5	6.183	0.30	0.30	3050	3050
wire	non noble metal	aluminium	7429-90-5	6.183	0.30	0.30	3050	3050
encapsulation	organic material	carbon black	1333-86-4	2.336	0.12		1152	
	plastics	epoxy resin	-	67.733	3.34		33419	
	inorganic material	silicondioxide	60676-86-0	513.836	25.35	28.81	253523	288094
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10589	10589
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870
solder	non noble metal	antimony	7440-36-0	0.242	0.01		119	
	noble metal	silver	7440-22-4	0.605	0.03		298	
	non noble metal	tin	7440-31-5	1.573	0.08	0.12	776	1193
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	29.08	29.12	290838	291216
*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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