



Material Content Data Sheet



Sales Product Name		IPP023N04N G		Issued		31. July 2018		
MA#		MA001837598						
Package		PG-TO220-3-123		Weight*		2026.75 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	40.22	40.27	402287	402811
	non noble metal	aluminium	7429-90-5	5.857	0.29	0.29	2890	2890
wire	non noble metal	aluminium	7429-90-5	5.857	0.29	0.29	2890	2890
encapsulation	organic material	carbon black	1333-86-4	2.337	0.12		1153	
	plastics	epoxy resin	-	67.766	3.34		33436	
	inorganic material	silicondioxide	60676-86-0	514.087	25.37	28.83	253652	288241
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10590	10590
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	290844	291222
*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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