



Material Content Data Sheet



Sales Product Name		IPP048N12N3 G		Issued		19. July 2018		
MA#		MA001263092						
Package		PG-TO220-3-1		Weight*		2037.06 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	15.224	0.75	0.75	7474	7474
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	40.03	40.08	400250	400771
wire	non noble metal	aluminium	7429-90-5	9.025	0.44	0.44	4431	4431
encapsulation	organic material	carbon black	1333-86-4	5.780	0.28		2837	
	plastics	epoxy resin	-	109.812	5.39		53907	
	inorganic material	silicondioxide	60676-86-0	462.367	22.70	28.37	226977	283721
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10536	10536
plating	non noble metal	nickel	7440-02-0	0.244	0.01		120	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	400249	120
solder	non noble metal	antimony	7440-36-0	0.652	0.03		320	
	noble metal	silver	7440-22-4	1.630	0.08		800	
	non noble metal	tin	7440-31-5	4.237	0.21	0.32	2080	3200
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	28.94	28.98	289370	289747
*deviation	< 10%				Sum in total:	100.00		1000000

Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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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