



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPP040N06N3 G	Issued	24. June 2021
MA#	MA000977580		
Package	PG-TO220-3-123	Weight*	2028.76 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	5.184	0.26	0.26	2555	2555
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	40.19	40.24	401890	402413
wire	non noble metal	aluminium	7429-90-5	7.777	0.38	0.38	3833	3833
encapsulation	organic material	carbon black	1333-86-4	2.333	0.12		1150	
	plastics	epoxy resin	-	67.643	3.33		33342	
	inorganic material	silicondioxide	60676-86-0	513.157	25.29	28.74	252942	287434
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10579	10579
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	869	869
solder	non noble metal	antimony	7440-36-0	0.281	0.01		138	
	noble metal	silver	7440-22-4	0.702	0.03		346	
	non noble metal	tin	7440-31-5	1.824	0.09	0.13	899	1383
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	29.06	29.10	290556	290934
*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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