



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPP052N06L3 G	Issued	14. April 2021
MA#	MA005403732		
Package	PG-TO220-3-123	Weight*	2036.96 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	3.393	0.17	0.17	1666	1666
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		401	
	non noble metal	copper	7440-50-8	815.335	40.01	40.06	400270	400791
wire	non noble metal	aluminium	7429-90-5	7.252	0.36	0.36	3560	3560
encapsulation	organic material	carbon black	1333-86-4	2.972	0.15		1459	
	miscellaneous	miscellaneous	-	2.972	0.15		1459	
	organic material	phenol formaldehyde resin	9003-35-4	35.663	1.75		17508	
	inorganic material	silicondioxide	14808-60-7	47.550	2.33		23344	
	non noble metal	metal hydroxide	-	47.550	2.33		23344	
	plastics	epoxy resin	29690-82-2	71.325	3.50		35015	
	inorganic material	silicondioxide	60676-86-0	386.345	18.97	29.18	189667	291796
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10536	10536
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	866	866
solder	non noble metal	antimony	7440-36-0	0.208	0.01		102	
	noble metal	silver	7440-22-4	0.521	0.03		256	
	non noble metal	tin	7440-31-5	1.355	0.07	0.11	665	1023
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		290	
	non noble metal	copper	7440-50-8	589.466	28.94	28.98	289385	289762
*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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