



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPP048N12N3 G	Issued	14. April 2021
MA#	MA005403597		
Package	PG-TO220-3-123	Weight*	2043.42 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	0.74	0.74	7450	7450
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		400	
	non noble metal	copper	7440-50-8	815.335	39.91	39.96	399005	399525
wire	non noble metal	aluminium	7429-90-5	11.059	0.54	0.54	5412	5412
encapsulation	organic material	carbon black	1333-86-4	2.904	0.14		1421	
	miscellaneous	miscellaneous	-	2.904	0.14		1421	
	organic material	phenol formaldehyde resin	9003-35-4	34.845	1.71		17053	
	inorganic material	silicondioxide	14808-60-7	46.461	2.27		22737	
	non noble metal	metal hydroxide	-	46.461	2.27		22737	
	plastics	epoxy resin	29690-82-2	69.691	3.41		34105	
	inorganic material	silicondioxide	60676-86-0	377.493	18.47	28.41	184736	284210
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10503	10503
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	863	863
solder	non noble metal	antimony	7440-36-0	0.652	0.03		319	
	noble metal	silver	7440-22-4	1.630	0.08		798	
	non noble metal	tin	7440-31-5	4.237	0.21	0.32	2074	3191
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		289	
	non noble metal	copper	7440-50-8	589.466	28.85	28.89	288470	288846
*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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