



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPP023NE7N3 G	Issued	14. April 2021
MA#	MA005403204		
Package	PG-TO220-3-123	Weight*	2042.57 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	12.294	0.60	0.60	6019	6019
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	39.92	39.97	399171	399691
wire	non noble metal	aluminium	7429-90-5	12.735	0.62	0.62	6235	6235
encapsulation	organic material	carbon black	1333-86-4	2.911	0.14		1425	
	miscellaneous	miscellaneous	-	2.911	0.14		1425	
	organic material	phenol formaldehyde resin	9003-35-4	34.935	1.71		17104	
	inorganic material	silicondioxide	14808-60-7	46.581	2.28		22805	
	non noble metal	metal hydroxide	-	46.581	2.28		22805	
	plastics	epoxy resin	29690-82-2	69.871	3.42		34207	
	inorganic material	silicondioxide	60676-86-0	378.467	18.53	28.50	185290	285061
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10508	10508
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	863	863
solder	non noble metal	antimony	7440-36-0	0.543	0.03		266	
	noble metal	silver	7440-22-4	1.357	0.07		664	
	non noble metal	tin	7440-31-5	3.528	0.17	0.27	1727	2657
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	28.86	28.90	288590	288966
*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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