



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPP045N10N3 G	Issued	16. May 2021
MA#	MA005403592		
Package	PG-TO220-3-123	Weight*	2040.46 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	8.861	0.43	0.43	4343	4343
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	39.97	40.02	399583	400103
wire	non noble metal	aluminium	7429-90-5	10.404	0.51	0.51	5099	5099
encapsulation	organic material	carbon black	1333-86-4	2.935	0.14		1439	
	miscellaneous	miscellaneous	-	2.935	0.14		1439	
	organic material	phenol formaldehyde resin	9003-35-4	35.223	1.73		17262	
	inorganic material	silicondioxide	14808-60-7	46.964	2.30		23016	
	non noble metal	metal hydroxide	-	46.964	2.30		23016	
	plastics	epoxy resin	29690-82-2	70.446	3.45		34524	
	inorganic material	silicondioxide	60676-86-0	381.581	18.70	28.76	187008	287704
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10518	10518
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	864	864
solder	non noble metal	antimony	7440-36-0	0.429	0.02		210	
	noble metal	silver	7440-22-4	1.074	0.05		526	
	non noble metal	tin	7440-31-5	2.791	0.14	0.21	1368	2104
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	28.89	28.93	288889	289265
*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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