

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IPP042N03L G	**Issued**	16. May 2021
MA#	MA005403443		
Package	PG-TO220-3-123	**Weight***	2035.63 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	1.734	0.09	0.09	852	852
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	40.03	40.08	400532	401053
wire	non noble metal	aluminium	7429-90-5	5.780	0.28	0.28	2839	2839
encapsulation	organic material	carbon black	1333-86-4	2.985	0.15		1466	
	miscellaneous	miscellaneous	-	2.985	0.15		1466	
	organic material	phenol formaldehyde resin	9003-35-4	35.821	1.76		17597	
	inorganic material	silicondioxide	14808-60-7	47.761	2.35		23463	
	non noble metal	metal hydroxide	-	47.761	2.35		23463	
	plastics	epoxy resin	29690-82-2	71.641	3.52		35194	
	inorganic material	silicondioxide	60676-86-0	388.057	19.06	29.34	190633	293282
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10543	10543
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	866	866
solder	non noble metal	antimony	7440-36-0	0.125	0.01		61	
	noble metal	silver	7440-22-4	0.312	0.02		153	
	non noble metal	tin	7440-31-5	0.811	0.04	0.07	398	612
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	28.96	29.00	289576	289953
*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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