



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPP055N03L G	Issued	03. June 2021
MA#	MA005403582		
Package	PG-TO220-3-123	Weight*	2034.98 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	1.415	0.07	0.07	695	695
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	40.07	40.12	400660	401181
wire	non noble metal	aluminium	7429-90-5	4.098	0.20	0.20	2014	2014
encapsulation	organic material	carbon black	1333-86-4	2.993	0.15		1471	
	miscellaneous	miscellaneous	-	2.993	0.15		1471	
	organic material	phenol formaldehyde resin	9003-35-4	35.911	1.76		17647	
	inorganic material	silicon dioxide	14808-60-7	47.881	2.35		23529	
	non noble metal	metal hydroxide	-	47.881	2.35		23529	
	plastics	epoxy resin	29690-82-2	71.822	3.53		35294	
	inorganic material	silicon dioxide	60676-86-0	389.035	19.12	29.41	191174	294115
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10547	10547
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	867	867
solder	non noble metal	antimony	7440-36-0	0.109	0.01		54	
	noble metal	silver	7440-22-4	0.273	0.01		134	
	non noble metal	tin	7440-31-5	0.710	0.03	0.05	349	537
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	28.97	29.01	289667	290044
*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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