

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IPP60R099CP	**Issued**	15. April 2021
MA#	MA005404632		
Package	PG-TO220-3-123	**Weight***	2041.22 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	15.501	0.76	0.76	7594	7594
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	39.94	39.99	399436	399956
wire	non noble metal	aluminium	7429-90-5	3.301	0.16	0.16	1617	1617
encapsulation	organic material	carbon black	1333-86-4	2.930	0.14		1436	
	miscellaneous	miscellaneous	-	2.930	0.14		1436	
	organic material	phenol formaldehyde resin	9003-35-4	35.165	1.72		17227	
	inorganic material	silicondioxide	14808-60-7	46.887	2.30		22970	
	non noble metal	metal hydroxide	-	46.887	2.30		22970	
	plastics	epoxy resin	29690-82-2	70.330	3.45		34455	
	inorganic material	silicondioxide	60676-86-0	380.955	18.66	28.71	186631	287125
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10514	10514
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	864	864
solder	non noble metal	antimony	7440-36-0	0.648	0.03		317	
	noble metal	silver	7440-22-4	1.619	0.08		793	
	non noble metal	tin	7440-31-5	4.210	0.21	0.32	2063	3173
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	28.88	28.92	288781	289157
*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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