

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IPP50R140CP	**Issued**	16. May 2021
MA#	MA005403128		
Package	PG-TO220-3-123	**Weight***	2039.65 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	11.898	0.58	0.58	5833	5833
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	39.99	40.04	399743	400263
wire	non noble metal	aluminium	7429-90-5	3.242	0.16	0.16	1590	1590
encapsulation	organic material	carbon black	1333-86-4	2.947	0.14		1445	
	miscellaneous	miscellaneous	-	2.947	0.14		1445	
	organic material	phenol formaldehyde resin	9003-35-4	35.365	1.73		17339	
	inorganic material	silicondioxide	14808-60-7	47.153	2.31		23118	
	non noble metal	metal hydroxide	-	47.153	2.31		23118	
	plastics	epoxy resin	29690-82-2	70.730	3.47		34677	
	inorganic material	silicondioxide	60676-86-0	383.121	18.78	28.88	187836	288978
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10523	10523
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	865	865
solder	non noble metal	antimony	7440-36-0	0.524	0.03		257	
	noble metal	silver	7440-22-4	1.310	0.06		642	
	non noble metal	tin	7440-31-5	3.406	0.17	0.26	1670	2569
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	28.90	28.94	289003	289379
*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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