

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IPP65R190E6	**Issued**	03. June 2021
MA#	MA005406054		
Package	PG-TO220-3-123	**Weight***	2038.54 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	9.459	0.46	0.46	4640	4640
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	40.00	40.05	399958	400478
wire	non noble metal	aluminium	7429-90-5	2.972	0.15	0.15	1458	1458
encapsulation	organic material	carbon black	1333-86-4	2.959	0.15		1452	
	miscellaneous	miscellaneous	-	2.959	0.15		1452	
	organic material	phenol formaldehyde resin	9003-35-4	35.510	1.74		17419	
	inorganic material	silicondioxide	14808-60-7	47.347	2.32		23226	
	non noble metal	metal hydroxide	-	47.347	2.32		23226	
	plastics	epoxy resin	29690-82-2	71.020	3.48		34839	
	inorganic material	silicondioxide	60676-86-0	384.691	18.87	29.03	188709	290323
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10528	10528
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	865	865
solder	non noble metal	antimony	7440-36-0	0.442	0.02		217	
	noble metal	silver	7440-22-4	1.106	0.05		543	
	non noble metal	tin	7440-31-5	2.876	0.14	0.21	1411	2171
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	28.92	28.96	289160	289537
*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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