

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IPP65R190C7	**Issued**	16. May 2021
MA#	MA005405903		
Package	PG-TO220-3-123	**Weight***	2036.26 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	4.186	0.21	0.21	2056	2056
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	400407	400928
wire	non noble metal	aluminium	7429-90-5	3.243	0.16	0.16	1593	1593
encapsulation	organic material	carbon black	1333-86-4	2.982	0.15		1465	
	miscellaneous	miscellaneous	-	2.982	0.15		1465	
	organic material	phenol formaldehyde resin	9003-35-4	35.789	1.76		17576	
	inorganic material	silicondioxide	14808-60-7	47.719	2.34		23435	
	non noble metal	metal hydroxide	-	47.719	2.34		23435	
	plastics	epoxy resin	29690-82-2	71.578	3.52		35152	
	inorganic material	silicondioxide	60676-86-0	387.716	19.04	29.30	190406	292934
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10540	10540
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	866	866
solder	non noble metal	antimony	7440-36-0	0.249	0.01		122	
	noble metal	silver	7440-22-4	0.621	0.03		305	
	non noble metal	tin	7440-31-5	1.616	0.08	0.12	794	1221
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	28.95	28.99	289485	289862
*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.

Company	Infineon Technologies AG
Address	81726 Neubiberg
Internet	www.infineon.com