

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IPP60R190P6	**Issued**	03. June 2021
MA#	MA005404807		
Package	PG-TO220-3-123	**Weight***	2037.98 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	8.148	0.40	0.40	3998	3998
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	39.99	40.04	400070	400591
wire	non noble metal	aluminium	7429-90-5	3.035	0.15	0.15	1489	1489
encapsulation	organic material	carbon black	1333-86-4	2.965	0.15		1455	
	miscellaneous	miscellaneous	-	2.965	0.15		1455	
	organic material	phenol formaldehyde resin	9003-35-4	35.580	1.75		17458	
	inorganic material	silicondioxide	14808-60-7	47.439	2.33		23278	
	non noble metal	metal hydroxide	-	47.439	2.33		23278	
	plastics	epoxy resin	29690-82-2	71.159	3.49		34916	
	inorganic material	silicondioxide	60676-86-0	385.445	18.91	29.11	189131	290971
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10531	10531
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	865	865
solder	non noble metal	antimony	7440-36-0	0.395	0.02		194	
	noble metal	silver	7440-22-4	0.987	0.05		484	
	non noble metal	tin	7440-31-5	2.567	0.13	0.20	1260	1938
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	289240	289617
*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