



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPP60R280CFD7	Issued	16. April 2021
MA#	MA005404851		
Package	PG-TO220-3-123	Weight*	2035.23 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	2.932	0.14	0.14	1441	1441
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	40.08	40.13	400612	401133
wire	non noble metal	aluminium	7429-90-5	1.830	0.09	0.09	899	899
encapsulation	organic material	carbon black	1333-86-4	2.993	0.15		1471	
	miscellaneous	miscellaneous	-	2.993	0.15		1471	
	organic material	phenol formaldehyde resin	9003-35-4	35.920	1.76		17649	
	inorganic material	silicondioxide	14808-60-7	47.894	2.35		23532	
	non noble metal	metal hydroxide	-	47.894	2.35		23532	
	plastics	epoxy resin	29690-82-2	71.840	3.53		35298	
	inorganic material	silicondioxide	60676-86-0	389.135	19.12	29.41	191200	294153
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10545	10545
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	867	867
solder	non noble metal	antimony	7440-36-0	0.194	0.01		95	
	noble metal	silver	7440-22-4	0.486	0.02		239	
	non noble metal	tin	7440-31-5	1.263	0.06	0.09	620	954
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	28.96	29.00	289631	290008
*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