



Material Content Data Sheet



Sales Product Name		IPP60R210CFD7		Issued		9. January 2019		
MA#		MA002182516						
Package		PG-TO220-3-123		Weight*		2026.10 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	3.709	0.18	0.18	1831	1831
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		403	
	non noble metal	copper	7440-50-8	815.335	40.24	40.29	402416	402940
	non noble metal	aluminium	7429-90-5	2.566	0.13	0.13	1266	1266
wire	non noble metal	aluminium	7429-90-5	2.566	0.13	0.13	1266	1266
encapsulation	organic material	carbon black	1333-86-4	2.351	0.12		1160	
	plastics	epoxy resin	-	68.172	3.36		33647	
	inorganic material	silicondioxide	60676-86-0	517.166	25.53	29.01	255252	290059
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10593	10593
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870
solder	non noble metal	antimony	7440-36-0	0.228	0.01		113	
	noble metal	silver	7440-22-4	0.570	0.03		282	
	non noble metal	tin	7440-31-5	1.483	0.07	0.11	732	1127
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		291	
	non noble metal	copper	7440-50-8	589.466	29.09	29.13	290936	291314
*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 München
Internet	www.infineon.com