



Material Content Data Sheet



Sales Product Name		IPP80R450P7		Issued		23. January 2018		
MA#		MA002112130						
Package		PG-TO220-3-123		Weight*		2025.97 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	3.428	0.17	0.17	1692	1692
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	40.22	40.27	402442	402966
	non noble metal	aluminium	7429-90-5	2.593	0.13	0.13	1280	1280
wire	non noble metal	aluminium	7429-90-5	2.593	0.13	0.13	1280	1280
encapsulation	organic material	carbon black	1333-86-4	2.352	0.12		1161	
	plastics	epoxy resin	-	68.199	3.37		33662	
	inorganic material	silicondioxide	60676-86-0	517.371	25.54	29.03	255370	290193
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10594	10594
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	871	871
solder	non noble metal	antimony	7440-36-0	0.217	0.01		107	
	noble metal	silver	7440-22-4	0.542	0.03		268	
	non noble metal	tin	7440-31-5	1.410	0.07	0.11	696	1071
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	29.10	29.14	290955	291333
*deviation	< 10%		Sum in total:			100.00		1000000

Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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