



Material Content Data Sheet



Sales Product Name		IPP60R180P7		Issued		1. August 2018		
MA#		MA001994444						
Package		PG-TO220-3-123		Weight*		2026.35 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	4.174	0.21	0.21	2060	2060
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	40.23	40.28	402367	402891
	non noble metal	aluminium	7429-90-5	2.580	0.13	0.13	1273	1273
wire	non noble metal	aluminium	7429-90-5	2.580	0.13	0.13	1273	1273
encapsulation	organic material	carbon black	1333-86-4	2.349	0.12		1159	
	plastics	epoxy resin	-	68.120	3.36		33617	
	inorganic material	silicondioxide	60676-86-0	516.776	25.50	28.98	255028	289804
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10592	10592
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870
solder	non noble metal	antimony	7440-36-0	0.250	0.01		123	
	noble metal	silver	7440-22-4	0.624	0.03		308	
	non noble metal	tin	7440-31-5	1.623	0.08	0.12	801	1232
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	290900	291278
*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