



Material Content Data Sheet



Sales Product Name				IPA60R380E6		Issued		4. July 2019	
MA#				MA005339092					
Package				PG-TO220-3-313		Weight*		2207.58 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	4.522	0.20	0.20	2048	2048	
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123		
	non noble metal	iron	7439-89-6	0.903	0.04		409		
	non noble metal	copper	7440-50-8	902.149	40.87	40.92	408661	409193	
	non noble metal	aluminium	7429-90-5	0.789	0.04	0.04	357	357	
wire	non noble metal	aluminium	7429-90-5	0.789	0.04	0.04	357	357	
encapsulation	organic material	carbon black	1333-86-4	2.309	0.10		1046		
	plastics	epoxy resin	-	214.921	9.74		97356		
	inorganic material	silicondioxide	60676-86-0	924.509	41.87	51.71	418790	517192	
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3568	3568	
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750	
solder	non noble metal	antimony	7440-36-0	0.261	0.01		118		
	noble metal	silver	7440-22-4	0.652	0.03		295		
	non noble metal	tin	7440-31-5	1.694	0.08	0.12	767	1180	
heatspreader	inorganic material	phosphorus	7723-14-0	0.044	0.00		20		
	non noble metal	iron	7439-89-6	0.145	0.01		66		
	non noble metal	copper	7440-50-8	144.874	6.56	6.57	65626	65712	
*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