



Material Content Data Sheet



Sales Product Name				IPA60R450E6		Issued		25. September 2017	
MA#				MA001374712					
Package				PG-TO220-3-313		Weight*		2215.69 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	4.072	0.18	0.18	1838	1838	
leadframe	non noble metal	iron	7439-89-6	0.903	0.04		408		
	inorganic material	phosphorus	7723-14-0	0.271	0.01		122		
	non noble metal	copper	7440-50-8	902.149	40.72	40.77	407163	407693	
wire	non noble metal	aluminium	7429-90-5	0.789	0.04	0.04	356	356	
encapsulation	organic material	carbon black	1333-86-4	2.301	0.10		1038		
	plastics	epoxy resin	-	216.269	9.76		97608		
	inorganic material	silicondioxide	60676-86-0	931.798	42.05	51.91	420546	519192	
leadfinish	non noble metal	tin	7440-31-5	7.975	0.36	0.36	3600	3600	
plating	non noble metal	nickel	7440-02-0	1.676	0.08	0.08	757	757	
solder	non noble metal	antimony	7440-36-0	0.243	0.01		109		
	noble metal	silver	7440-22-4	0.606	0.03		274		
	non noble metal	tin	7440-31-5	1.576	0.07	0.11	711	1094	
heatspreader	non noble metal	iron	7439-89-6	0.145	0.01		65		
	inorganic material	phosphorus	7723-14-0	0.044	0.00		20		
	non noble metal	copper	7440-50-8	144.874	6.54	6.55	65385	65470	
*deviation	< 10%					Sum in total:	100.00	1000000	

Important Remarks:

1. Infineon Technologies AG provides full material declaration based on information provided by third parties and has taken and continues to take reasonable steps to provide representative and accurate information.
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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

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