



Material Content Data Sheet



Sales Product Name				IPA60R190P6		Issued		19. January 2018	
MA#				MA001725672					
Package				PG-TO220-3-111		Weight*		2268.53 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	8.148	0.36	0.36	3592	3592	
leadframe	inorganic material	phosphorus	7723-14-0	0.206	0.01		91		
	non noble metal	iron	7439-89-6	0.687	0.03		303		
	non noble metal	copper	7440-50-8	686.221	30.25	30.29	302496	302890	
	non noble metal	aluminium	7429-90-5	2.594	0.11	0.11	1144	1144	
wire	non noble metal	aluminium	7429-90-5	2.594	0.11	0.11	1144	1144	
encapsulation	organic material	carbon black	1333-86-4	2.297	0.10		1013		
	plastics	epoxy resin	-	212.135	9.35		93512		
	inorganic material	silicondioxide	60676-86-0	911.374	40.18	49.63	401744	496269	
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3501	3501	
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1		
	non noble metal	nickel	7440-02-0	0.305	0.01	0.01	134	135	
solder	non noble metal	antimony	7440-36-0	0.395	0.02		174		
	noble metal	silver	7440-22-4	0.987	0.04		435		
	non noble metal	tin	7440-31-5	2.567	0.11	0.17	1132	1741	
heatspreader	inorganic material	phosphorus	7723-14-0	0.130	0.01		57		
	non noble metal	iron	7439-89-6	0.433	0.02		191		
	non noble metal	copper	7440-50-8	432.110	19.05	19.08	190480	190728	
*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