



Material Content Data Sheet



Sales Product Name		IPA60R099P6		Issued		4. July 2019		
MA#		MA005339866						
Package		PG-TO220-3-313		Weight*		2199.75 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	15.501	0.70	0.70	7047	7047
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		411	
	non noble metal	copper	7440-50-8	902.149	41.01	41.06	410114	410648
	non noble metal	aluminium	7429-90-5	2.966	0.13	0.13	1348	1348
wire	non noble metal	aluminium	7429-90-5	2.966	0.13	0.13	1348	1348
encapsulation	organic material	carbon black	1333-86-4	2.365	0.11		1075	
	plastics	epoxy resin	-	211.378	9.61		96092	
	inorganic material	silicondioxide	60676-86-0	903.145	41.06	50.78	410567	507734
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3581	3581
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	753	753
solder	non noble metal	antimony	7440-36-0	0.648	0.03		294	
	noble metal	silver	7440-22-4	1.619	0.07		736	
	non noble metal	tin	7440-31-5	4.210	0.19	0.29	1914	2944
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	6.59	6.60	65859	65945
*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