



Material Content Data Sheet



Sales Product Name		IPB65R190CFD		Issued		29. August 2013		
MA#		MA001039188						
Package		PG-TO263-3-2		Weight*		1562.16 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	9.451	0.60	0.60	6050	6050
leadframe	non noble metal	iron	7439-89-6	0.304	0.02		195	
	inorganic material	phosphorus	7723-14-0	0.091	0.01		58	
	non noble metal	copper	7440-50-8	304.026	19.46	19.49	194619	194872
wire	non noble metal	aluminium	7429-90-5	2.665	0.17	0.17	1706	1706
encapsulation	organic material	carbon black	1333-86-4	10.216	0.65		6540	
	plastics	epoxy resin	-	112.380	7.19		71939	
	inorganic material	silicondioxide	60676-86-0	558.492	35.76	43.60	357511	435991
leadfinish	non noble metal	tin	7440-31-5	9.657	0.62	0.62	6182	6182
plating	non noble metal	nickel	7440-02-0	0.228	0.01		146	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	146
solder	noble metal	silver	7440-22-4	0.157	0.01		100	
	non noble metal	tin	7440-31-5	0.125	0.01		80	
	non noble metal	lead	7439-92-1	5.989	0.38	0.40	3834	4014
heatspreader	inorganic material	phosphorus	7723-14-0	0.165	0.01		105	
	non noble metal	iron	7439-89-6	0.548	0.04		351	
	non noble metal	copper	7440-50-8	547.666	35.06	35.11	350583	351039
*deviation	< 10%		Sum in total:			100.00		1000000

Important Remarks:

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Company	Infineon Technologies AG
Address	81726 München
Internet	www.infineon.com