



Material Content Data Sheet



Sales Product Name		IPA50R520CP		Issued		29. August 2013		
MA#		MA000904480						
Package		PG-TO220-3-111		Weight*		2240.42 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	3.934	0.18	0.18	1756	1756
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		307	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		92	
	non noble metal	copper	7440-50-8	686.221	30.63	30.67	306292	306691
wire	non noble metal	aluminium	7429-90-5	0.680	0.03	0.03	303	303
encapsulation	organic material	carbon black	1333-86-4	2.211	0.10		987	
	plastics	epoxy resin	-	207.813	9.28		92757	
	inorganic material	silicondioxide	60676-86-0	895.365	39.95	49.33	399641	493386
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3545	3545
plating	non noble metal	nickel	7440-02-0	0.305	0.01		136	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	136
solder	non noble metal	antimony	7440-36-0	0.238	0.01		106	
	noble metal	silver	7440-22-4	0.595	0.03		265	
	non noble metal	tin	7440-31-5	1.546	0.07	0.11	690	1061
heatspreader	inorganic material	phosphorus	7723-14-0	0.130	0.01		58	
	non noble metal	iron	7439-89-6	0.433	0.02		193	
	non noble metal	copper	7440-50-8	432.110	19.29	19.32	192871	193122
*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