



Material Content Data Sheet



Sales Product Name		SPP04N60S5		Issued		29. August 2013		
MA#		MA000357659						
Package		PG-TO220-3-21		Weight*		2039.60 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	3.191	0.16	0.16	1564	1564
leadframe	non noble metal	iron	7439-89-6	0.849	0.04		416	
	inorganic material	phosphorus	7723-14-0	0.255	0.01		125	
	non noble metal	copper	7440-50-8	848.194	41.58	41.63	415864	416405
wire	non noble metal	aluminium	7429-90-5	0.701	0.03	0.03	344	344
encapsulation	organic material	carbon black	1333-86-4	6.309	0.31		3093	
	inorganic material	antimonytrioxide	1309-64-4	13.191	0.65		6467	
	plastics	brominated resin	-	14.911	0.73		7311	
	plastics	epoxy resin	-	108.965	5.34		53425	
	inorganic material	silicondioxide	60676-86-0	430.126	21.09	28.12	210888	281184
leadfinish	non noble metal	tin	7440-31-5	18.469	0.91	0.91	9055	9055
plating	non noble metal	nickel	7440-02-0	2.067	0.10	0.10	1014	1014
solder	non noble metal	tin	7440-31-5	1.387	0.07		680	
	noble metal	silver	7440-22-4	0.534	0.03		262	
	non noble metal	antimony	7440-36-0	0.213	0.01	0.11	105	1047
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		289	
	non noble metal	copper	7440-50-8	589.466	28.90	28.94	289011	289387
*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