



Material Content Data Sheet



Halogen-Free

Sales Product Name IPW60R045CPA

Issued

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MA# MA005618522

Package PG-TO247-3-41

Weight*

6063.81 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	35.449	0.58	0.58	5846	5846
leadframe	inorganic material	phosphorus	7723-14-0	0.159			26	
	non noble metal	iron	7439-89-6	0.530	0.01		87	
	non noble metal	copper	7440-50-8	529.068	8.72	8.73	87250	87363
wire	non noble metal	aluminium	7429-90-5	15.739	0.26	0.26	2596	2596
encapsulation	organic material	carbon black	1333-86-4	19.670	0.32		3244	
	plastics	epoxy resin	-	373.725	6.16		61632	
	inorganic material	silicondioxide	60676-86-0	1,573.579	25.95	32.43	259504	324380
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5256	5256
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4793	4793
solder	non noble metal	antimony	7440-36-0	1.247	0.02		206	
	noble metal	silver	7440-22-4	3.117	0.05		514	
	non noble metal	tin	7440-31-5	8.105	0.13	0.20	1337	2057
heatspreader	inorganic material	phosphorus	7723-14-0	1.033	0.02		170	
	non noble metal	iron	7439-89-6	3.442	0.06		568	
	non noble metal	copper	7440-50-8	3,438.006	56.71	56.79	566971	567709
*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 Neubiberg
Internet	www.infineon.com