



Material Content Data Sheet



Sales Product Name		IPW50R299CP		Issued		23. February 2016		
MA#		MA000909228						
Package		PG-TO247-3-21		Weight*		6001.51 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	6.215	0.10	0.10	1036	1036
leadframe	non noble metal	iron	7439-89-6	0.530	0.01		88	
	inorganic material	phosphorus	7723-14-0	0.159	0.00		26	
	non noble metal	copper	7440-50-8	529.068	8.82	8.83	88156	88270
wire	non noble metal	aluminium	7429-90-5	41.673	0.69	0.69	6944	6944
encapsulation	organic material	carbon black	1333-86-4	21.080	0.35		3513	
	inorganic material	antimonytrioxide	1309-64-4	44.077	0.73		7344	
	plastics	brominated resin	-	49.827	0.83		8302	
	plastics	epoxy resin	-	364.117	6.07		60671	
	inorganic material	silicondioxide	60676-86-0	1437.304	23.95	31.93	239490	319320
leadfinish	non noble metal	tin	7440-31-5	32.273	0.54	0.54	5377	5377
plating	non noble metal	nickel	7440-02-0	29.428	0.49	0.49	4903	4903
solder	non noble metal	antimony	7440-36-0	0.328	0.01		55	
	noble metal	silver	7440-22-4	0.820	0.01		137	
	non noble metal	tin	7440-31-5	2.132	0.04	0.06	355	547
heatspreader	inorganic material	phosphorus	7723-14-0	1.033	0.02		172	
	non noble metal	iron	7439-89-6	3.442	0.06		574	
	non noble metal	copper	7440-50-8	3438.006	57.28	57.36	572857	573603
*deviation	< 10%					Sum in total:	100.00	1000000

Important Remarks:

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This product is in compliance with EU Directive 2011/65/EU (RoHS) and does not use any exemption.

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