



## Material Content Data Sheet



<b>Sales Product Name</b>				IPW50R190CE		<b>Issued</b>		20. July 2018	
<b>MA#</b>				MA001304316					
<b>Package</b>				PG-TO247-3-41		<b>Weight*</b>		6047.88 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	6.706	0.11	0.11	1109	1109	
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	8.75	8.76	87480	87594	
wire	non noble metal	aluminium	7429-90-5	4.207	0.07	0.07	696	696	
encapsulation	organic material	carbon black	1333-86-4	20.004	0.33		3308		
	plastics	epoxy resin	-	380.067	6.28		62843		
	inorganic material	silicondioxide	60676-86-0	1600.281	26.46	33.07	264601	330752	
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5270	5270	
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4806	4806	
solder	non noble metal	antimony	7440-36-0	0.344	0.01		57		
	noble metal	silver	7440-22-4	0.860	0.01		142		
	non noble metal	tin	7440-31-5	2.236	0.04	0.06	370	569	
heatspreader	non noble metal	iron	7439-89-6	3.442	0.06		569		
	inorganic material	phosphorus	7723-14-0	1.033	0.02		171		
	non noble metal	copper	7440-50-8	3438.006	56.84	56.92	568464	569204	
*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 München
Internet	www.infineon.com