



Material Content Data Sheet



Sales Product Name		SPW20N60CFD		Issued		25. September 2017		
MA#		MA001486554						
Package		PG-TO247-3-41		Weight*		6055.31 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	13.322	0.22	0.22	2200	2200
leadframe	non noble metal	iron	7439-89-6	0.530	0.01		87	
	inorganic material	phosphorus	7723-14-0	0.159	0.00		26	
	non noble metal	copper	7440-50-8	529.068	8.74	8.75	87373	87486
wire	non noble metal	aluminium	7429-90-5	43.818	0.72	0.72	7236	7236
encapsulation	organic material	carbon black	1333-86-4	19.593	0.32		3236	
	plastics	epoxy resin	-	372.266	6.15		61478	
	inorganic material	silicondioxide	60676-86-0	1567.437	25.89	32.36	258853	323567
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5264	5264
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4800	4800
solder	non noble metal	antimony	7440-36-0	0.570	0.01		94	
	noble metal	silver	7440-22-4	1.424	0.02		235	
	non noble metal	tin	7440-31-5	3.703	0.06	0.09	611	940
heatspreader	inorganic material	phosphorus	7723-14-0	1.033	0.02		171	
	non noble metal	iron	7439-89-6	3.442	0.06		569	
	non noble metal	copper	7440-50-8	3438.006	56.77	56.85	567767	568507
*deviation	< 10%					Sum in total:	100.00	1000000

Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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