



Material Content Data Sheet



Sales Product Name		SPA20N60CFD		Issued		20. July 2018		
MA#		MA000925624						
Package		PG-TO220-3-121		Weight*		2263.52 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	0.59	0.59	5886	5886
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		304	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		91	
	non noble metal	copper	7440-50-8	686.221	30.32	30.36	303165	303560
wire	non noble metal	aluminium	7429-90-5	26.795	1.18	1.18	11838	11838
encapsulation	organic material	carbon black	1333-86-4	2.258	0.10		998	
	plastics	epoxy resin	-	205.700	9.09		90876	
	inorganic material	silicondioxide	60676-86-0	881.716	38.95	48.14	389531	481406
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3509	3509
plating	non noble metal	nickel	7440-02-0	0.305	0.01		135	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	135
solder	non noble metal	antimony	7440-36-0	0.570	0.03		252	
	noble metal	silver	7440-22-4	1.424	0.06		629	
	non noble metal	tin	7440-31-5	3.703	0.16	0.25	1636	2517
heatspreader	non noble metal	iron	7439-89-6	0.433	0.02		191	
	inorganic material	phosphorus	7723-14-0	0.130	0.01		57	
	non noble metal	copper	7440-50-8	432.110	19.09	19.12	190901	191149
*deviation	< 10%				Sum in total:	100.00		1000000

Important Remarks:

1. Infineon Technologies AG provides full material declaration based on information provided by third parties and has taken and continues to take reasonable steps to provide representative and accurate information.
2. Infineon Technologies AG and Infineon Technologies AG suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.
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