



Material Content Data Sheet



Sales Product Name		SPP20N60C3		Issued		27. September 2017		
MA#		MA001425154						
Package		PG-TO220-3-1		Weight*		2035.25 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	12.312	0.60	0.60	6050	6050
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		401	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	copper	7440-50-8	815.335	40.06	40.11	400606	401128
wire	non noble metal	aluminium	7429-90-5	2.935	0.14	0.14	1442	1442
encapsulation	organic material	carbon black	1333-86-4	5.860	0.29		2879	
	plastics	epoxy resin	-	111.346	5.47		54709	
	inorganic material	silicondioxide	60676-86-0	468.824	23.04	28.80	230352	287940
leadfinish	non noble metal	tin	7440-31-5	21.731	1.07	1.07	10677	10677
plating	non noble metal	nickel	7440-02-0	0.244	0.01		120	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	120
solder	non noble metal	antimony	7440-36-0	0.537	0.03		264	
	noble metal	silver	7440-22-4	1.342	0.07		659	
	non noble metal	tin	7440-31-5	3.489	0.17	0.27	1714	2637
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		290	
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	copper	7440-50-8	589.466	28.96	29.00	289629	290006
*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

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