



Material Content Data Sheet



Sales Product Name		SPP20N60S5		Issued		25. September 2017		
MA#		MA000949916						
Package		PG-TO220-3-123		Weight*		2030.45 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	12.785	0.63	0.63	6296	6296
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		402	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	copper	7440-50-8	815.335	40.15	40.20	401553	402076
wire	non noble metal	aluminium	7429-90-5	2.578	0.13	0.13	1270	1270
encapsulation	organic material	carbon black	1333-86-4	2.318	0.11		1142	
	plastics	epoxy resin	-	67.221	3.31		33106	
	inorganic material	silicondioxide	60676-86-0	509.950	25.12	28.54	251150	285398
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10570	10570
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	869	869
solder	noble metal	silver	7440-22-4	1.437	0.07		708	
	non noble metal	antimony	7440-36-0	0.575	0.03		283	
	non noble metal	tin	7440-31-5	3.736	0.18	0.28	1840	2831
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		291	
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	copper	7440-50-8	589.466	29.03	29.07	290312	290690
*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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