



Material Content Data Sheet



Sales Product Name		SPP24N60C3		Issued		20. July 2018		
MA#		MA001054602						
Package		PG-TO220-3-1		Weight*		2038.56 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	14.004	0.69	0.69	6870	6870
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		400	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	copper	7440-50-8	815.335	39.99	40.04	399956	400477
wire	non noble metal	aluminium	7429-90-5	27.289	1.34	1.34	13386	13386
encapsulation	organic material	carbon black	1333-86-4	5.629	0.28		2761	
	plastics	epoxy resin	-	106.957	5.25		52467	
	inorganic material	silicondioxide	60676-86-0	450.347	22.09	27.62	220915	276143
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10528	10528
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	0.599	0.03		294	
	noble metal	silver	7440-22-4	1.498	0.07		735	
	non noble metal	tin	7440-31-5	3.895	0.19	0.29	1911	2940
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	28.92	28.96	289159	289536
*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