



Material Content Data Sheet



Sales Product Name		IPP023NE7N3 G		Issued		1. August 2018		
MA#		MA001281796						
Package		PG-TO220-3-123		Weight*		2031.03 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	12.294	0.61	0.61	6053	6053
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		402	
	non noble metal	copper	7440-50-8	815.335	40.14	40.19	401440	401963
	non noble metal	aluminium	7429-90-5	10.235	0.50	0.50	5039	5039
wire	non noble metal	aluminium	7429-90-5	10.235	0.50	0.50	5039	5039
encapsulation	organic material	carbon black	1333-86-4	2.293	0.11		1129	
	plastics	epoxy resin	-	66.492	3.27		32738	
	inorganic material	silicondioxide	60676-86-0	504.422	24.84	28.22	248358	282225
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10567	10567
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	868	868
solder	non noble metal	antimony	7440-36-0	0.543	0.03		268	
	noble metal	silver	7440-22-4	1.359	0.07		669	
	non noble metal	tin	7440-31-5	3.533	0.17	0.27	1739	2676
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		291	
	non noble metal	copper	7440-50-8	589.466	29.02	29.06	290231	290609
*deviation	< 10%		Sum in total:			100.00		1000000

Important Remarks:

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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