

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	SPP04N80C3	**Issued**	16. May 2021
MA#	MA005405652		
Package	PG-TO220-3-123	**Weight***	2035.28 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	3.894	0.19	0.19	1913	1913
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		401	
	non noble metal	copper	7440-50-8	815.335	40.07	40.12	400600	401121
wire	non noble metal	aluminium	7429-90-5	0.707	0.03	0.03	347	347
encapsulation	organic material	carbon black	1333-86-4	2.992	0.15		1470	
	miscellaneous	miscellaneous	-	2.992	0.15		1470	
	organic material	phenol formaldehyde resin	9003-35-4	35.908	1.76		17643	
	inorganic material	silicondioxide	14808-60-7	47.877	2.35		23524	
	non noble metal	metal hydroxide	-	47.877	2.35		23524	
	plastics	epoxy resin	29690-82-2	71.815	3.53		35285	
	inorganic material	silicondioxide	60676-86-0	388.999	19.11	29.40	191129	294045
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10545	10545
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	867	867
solder	non noble metal	antimony	7440-36-0	0.236	0.01		116	
	noble metal	silver	7440-22-4	0.590	0.03		290	
	non noble metal	tin	7440-31-5	1.535	0.08	0.12	754	1160
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		290	
	non noble metal	copper	7440-50-8	589.466	28.96	29.00	289625	290002
*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 Neubiberg
Internet	www.infineon.com