



Material Content Data Sheet



Halogen-Free

Sales Product Name	SPD04N50C3	Issued	17. February 2022
MA#	MA005620811		
Package	PG-TO252-3-341	Weight*	389.44 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	3.265	0.84	0.84	8385	8385
leadframe	inorganic material	phosphorus	7723-14-0	0.069	0.02		177	
	non noble metal	iron	7439-89-6	0.229	0.06		589	
	non noble metal	copper	7440-50-8	228.946	58.79	58.87	587886	588652
wire	non noble metal	aluminium	7429-90-5	0.521	0.13	0.13	1337	1337
encapsulation	organic material	carbon black	1333-86-4	0.390	0.10		1001	
	plastics	epoxy resin	-	11.828	3.04		30371	
	inorganic material	silicon dioxide	60676-86-0	117.759	30.24	33.38	302379	333751
leadfinish	non noble metal	tin	7440-31-5	3.740	0.96	0.96	9604	9604
plating	non noble metal	nickel	7440-02-0	0.509	0.13	0.13	1307	1307
solder	non noble metal	tin	7440-31-5	0.060	0.02		153	
	noble metal	silver	7440-22-4	0.075	0.02		191	
	non noble metal	lead	7439-92-1	2.848	0.73	0.77	7312	7656
heatspreader	inorganic material	phosphorus	7723-14-0	0.006			15	
	non noble metal	iron	7439-89-6	0.019			49	
	non noble metal	copper	7440-50-8	19.177	4.92	4.92	49244	49308
*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 contains Pb according RoHS exemption 7a, Lead in high melting temperature type solders.

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