



Material Content Data Sheet



Halogen-Free

Sales Product Name	IRFZ48NPBF	Issued	14. February 2022
MA#	MA005676656		
Package	PG-TO220-3-62	Weight*	1842.30 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	4.532	0.25	0.25	2460	2460
leadframe	inorganic material	phosphorus	7723-14-0	0.411	0.02		223	
	non noble metal	iron	7439-89-6	1.371	0.07		744	
	non noble metal	copper	7440-50-8	1,369.454	74.34	74.43	743341	744308
wire	non noble metal	aluminium	7429-90-5	4.001	0.22	0.22	2172	2172
encapsulation	organic material	carbon black	1333-86-4	2.253	0.12		1223	
	plastics	epoxy resin	-	90.137	4.89		48927	
	inorganic material	silicondioxide	60676-86-0	358.295	19.45	24.46	194483	244633
leadfinish	non noble metal	tin	7440-31-5	8.222	0.45	0.45	4463	4463
solder	non noble metal	tin	7440-31-5	0.072			39	
	noble metal	silver	7440-22-4	0.090			49	
	non noble metal	lead	7439-92-1	3.456	0.19	0.19	1876	1964
*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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