

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IPA50R190CE	**Issued**	11. April 2021
MA#	MA005343794		
Package	PG-TO220-3-312	**Weight***	2055.27 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	6.706	0.33	0.33	3263	3263
leadframe	inorganic material	phosphorus	7723-14-0	0.285	0.01		138	
	non noble metal	iron	7439-89-6	0.949	0.05		462	
	non noble metal	copper	7440-50-8	947.445	46.09	46.15	460981	461581
wire	non noble metal	aluminium	7429-90-5	4.184	0.20	0.20	2036	2036
encapsulation	organic material	carbon black	1333-86-4	10.743	0.52		5227	
	plastics	epoxy resin	-	173.811	8.46		84569	
	inorganic material	silicondioxide	60676-86-0	896.616	43.63	52.61	436252	526048
leadfinish	non noble metal	tin	7440-31-5	11.095	0.54	0.54	5398	5398
solder	non noble metal	antimony	7440-36-0	0.344	0.02		167	
	noble metal	silver	7440-22-4	0.860	0.04		419	
	non noble metal	tin	7440-31-5	2.236	0.11	0.17	1088	1674
*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 does not use any exemption.

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