



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPI90R1K2C3	Issued	14. April 2021
MA#	MA005403380		
Package	PG-TO262-3-22	Weight*	1573.05 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	4.798	0.30	0.30	3050	3050
leadframe	inorganic material	phosphorus	7723-14-0	0.255	0.02		162	
	non noble metal	iron	7439-89-6	0.851	0.05		541	
	non noble metal	copper	7440-50-8	849.682	54.04	54.11	540149	540852
wire	non noble metal	aluminium	7429-90-5	0.697	0.04	0.04	443	443
encapsulation	organic material	carbon black	1333-86-4	2.954	0.19		1878	
	miscellaneous	miscellaneous	-	2.954	0.19		1878	
	organic material	phenol formaldehyde resin	9003-35-4	35.451	2.25		22536	
	inorganic material	silicondioxide	14808-60-7	47.268	3.00		30049	
	non noble metal	metal hydroxide	-	47.268	3.00		30049	
	plastics	epoxy resin	29690-82-2	70.902	4.51		45073	
	inorganic material	silicondioxide	60676-86-0	384.052	24.41	37.55	244145	375608
leadfinish	non noble metal	tin	7440-31-5	15.198	0.97	0.97	9661	9661
plating	non noble metal	nickel	7440-02-0	1.651	0.10	0.10	1049	1049
solder	non noble metal	antimony	7440-36-0	0.272	0.02		173	
	noble metal	silver	7440-22-4	0.680	0.04		433	
	non noble metal	tin	7440-31-5	1.769	0.11	0.17	1125	1731
heatspreader	inorganic material	phosphorus	7723-14-0	0.032			20	
	non noble metal	iron	7439-89-6	0.106	0.01		68	
	non noble metal	copper	7440-50-8	106.210	6.75	6.76	67518	67606
*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