



Material Content Data Sheet



Halogen-Free

Sales Product Name	IKP20N65F5	Issued	24. February 2022
MA#	MA005708640		
Package	PG-TO220-3-1	Weight*	2031.65 mg

Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip_1	inorganic material	silicon	7440-21-3	1.193	0.06	0.06	587	587
chip_2	inorganic material	silicon	7440-21-3	0.525	0.03	0.03	258	258
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		402	
	non noble metal	copper	7440-50-8	815.335	40.13	40.18	401315	401838
wire	non noble metal	aluminium	7429-90-5	5.966	0.29	0.29	2936	2936
encapsulation	organic material	carbon black	1333-86-4	5.940	0.29		2924	
	plastics	epoxy resin	-	112.869	5.56		55555	
	inorganic material	silicondioxide	60676-86-0	475.237	23.39	29.24	233917	292396
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10564	10564
plating	inorganic material	phosphorus	7723-14-0	0.001			1	
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121
solder	non noble metal	antimony	7440-36-0	0.158	0.01		78	
	noble metal	silver	7440-22-4	0.396	0.02		195	
	non noble metal	tin	7440-31-5	1.030	0.05	0.08	507	780
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		291	
	non noble metal	copper	7440-50-8	589.466	29.01	29.05	290142	290520
*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.

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