



Material Content Data Sheet



Halogen-Free

Sales Product Name	IKP28N65ES5	Issued	13. April 2021
MA#	MA002890204		
Package	PG-TO220-3-1	Weight*	2032.24 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	1.245	0.06	0.06	613	613
chip_2	inorganic material	silicon	7440-21-3	0.970	0.05	0.05	477	477
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	401200	401723
wire	non noble metal	aluminium	7429-90-5	6.782	0.33	0.33	3337	3337
encapsulation	organic material	carbon black	1333-86-4	5.930	0.29		2918	
	plastics	epoxy resin	-	112.664	5.54		55438	
	inorganic material	silicondioxide	60676-86-0	474.375	23.34	29.17	233425	291781
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10561	10561
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	0.194	0.01		95	
	noble metal	silver	7440-22-4	0.484	0.02		238	
	non noble metal	tin	7440-31-5	1.260	0.06	0.09	620	953
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		290	
	non noble metal	copper	7440-50-8	589.466	29.01	29.05	290057	290434
*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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