

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IKP39N65ES5	**Issued**	23. December 2019
MA#	MA005402996		
Package	PG-TO220-3-1	**Weight***	2034.91 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	1.381	0.07	0.07	679	679
chip_2	inorganic material	silicon	7440-21-3	1.761	0.09	0.09	865	865
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		401	
	non noble metal	copper	7440-50-8	815.335	40.08	40.13	400673	401194
wire	non noble metal	aluminium	7429-90-5	13.624	0.67	0.67	6695	6695
encapsulation	organic material	carbon black	1333-86-4	5.872	0.29		2885	
	plastics	epoxy resin	-	111.562	5.48		54824	
	inorganic material	silicondioxide	60676-86-0	469.733	23.08	28.85	230837	288546
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10547	10547
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1	
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121
solder	non noble metal	antimony	7440-36-0	0.264	0.01		130	
	noble metal	silver	7440-22-4	0.660	0.03		325	
	non noble metal	tin	7440-31-5	1.717	0.08	0.12	844	1299
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	28.97	29.01	289677	290054
*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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