



Material Content Data Sheet



Halogen-Free

Sales Product Name	IKP20N60T	Issued	11. August 2021
MA#	MA005338148		
Package	PG-TO220-3-1	Weight*	2033.22 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	1.102	0.05	0.05	542	542
chip_2	inorganic material	silicon	7440-21-3	2.028	0.10	0.10	997	997
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		402	
	non noble metal	copper	7440-50-8	815.335	40.11	40.16	401006	401528
wire	non noble metal	aluminium	7429-90-5	8.387	0.41	0.41	4125	4125
encapsulation	organic material	carbon black	1333-86-4	5.910	0.29		2907	
	plastics	epoxy resin	-	112.282	5.52		55224	
	inorganic material	silicondioxide	60676-86-0	472.766	23.25	29.06	232521	290652
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10556	10556
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	0.241	0.01		119	
	noble metal	silver	7440-22-4	0.603	0.03		296	
	non noble metal	tin	7440-31-5	1.567	0.08	0.12	770	1185
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	28.99	29.03	289917	290294
*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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