



Material Content Data Sheet



Sales Product Name		IGP40N65F5		Issued		1. August 2018		
MA#		MA001712630						
Package		PG-TO220-3-1		Weight*		2030.79 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	2.080	0.10	0.10	1024	1024
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	40.15	40.20	401486	402009
	non noble metal	aluminium	7429-90-5	5.459	0.27	0.27	2688	2688
wire	non noble metal	aluminium	7429-90-5	5.459	0.27	0.27	2688	2688
encapsulation	organic material	carbon black	1333-86-4	5.931	0.29		2921	
	plastics	epoxy resin	-	112.690	5.55		55491	
	inorganic material	silicondioxide	60676-86-0	474.485	23.36	29.20	233646	292058
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10569	10569
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	0.180	0.01		89	
	noble metal	silver	7440-22-4	0.451	0.02		222	
	non noble metal	tin	7440-31-5	1.173	0.06	0.09	577	888
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	29.03	29.07	290265	290643
*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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