



## Material Content Data Sheet



Sales Product Name	IDP12E120			Issued		16. January 2020		
MA#	MA000719928							
Package	PG-TO220-2-1			Weight*		1964.91 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	2.921	0.15	0.15	1486	1486
leadframe	inorganic material	phosphorus	7723-14-0	0.226	0.01		115	
	non noble metal	iron	7439-89-6	0.753	0.04		383	
	non noble metal	copper	7440-50-8	751.797	38.25	38.30	382610	383108
wire	non noble metal	aluminium	7429-90-5	1.566	0.08	0.08	797	797
encapsulation	organic material	carbon black	1333-86-4	6.010	0.31		3059	
	plastics	epoxy resin	-	114.185	5.81		58112	
	inorganic material	silicondioxide	60676-86-0	480.779	24.47	30.59	244682	305853
leadfinish	non noble metal	tin	7440-31-5	14.487	0.74	0.74	7373	7373
plating	inorganic material	phosphorus	7723-14-0	0.000	0.00		1	
	non noble metal	nickel	7440-02-0	0.198	0.01	0.01	101	102
solder	non noble metal	antimony	7440-36-0	0.176	0.01		89	
	noble metal	silver	7440-22-4	0.440	0.02		224	
	non noble metal	tin	7440-31-5	1.143	0.06	0.09	582	895
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		90	
	non noble metal	iron	7439-89-6	0.590	0.03		300	
	non noble metal	copper	7440-50-8	589.466	30.00	30.04	299996	300386
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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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