



Material Content Data Sheet



Sales Product Name	IDP18E120			Issued		16. January 2020		
MA#	MA000763574							
Package	PG-TO220-2-1			Weight*		1965.76 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	3.674	0.19	0.19	1869	1869
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	38.24	38.29	382446	382944
wire	non noble metal	aluminium	7429-90-5	3.213	0.16	0.16	1635	1635
encapsulation	organic material	carbon black	1333-86-4	5.991	0.30		3048	
	plastics	epoxy resin	-	113.830	5.79		57906	
	inorganic material	silicondioxide	60676-86-0	479.284	24.38	30.47	243816	304770
leadfinish	non noble metal	tin	7440-31-5	14.487	0.74	0.74	7370	7370
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	0.207	0.01		105	
	noble metal	silver	7440-22-4	0.518	0.03		263	
	non noble metal	tin	7440-31-5	1.346	0.07	0.11	685	1053
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	29.99	30.03	299867	300257
*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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