



Material Content Data Sheet



Sales Product Name		IDP12E120		Issued		20. July 2018		
MA#		MA000719928						
Package		PG-TO220-2-1		Weight*		1964.61 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	1487	1487
leadframe	non noble metal	iron	7439-89-6	0.753	0.04		383	
	inorganic material	phosphorus	7723-14-0	0.226	0.01		115	
	non noble metal	copper	7440-50-8	751.797	38.27	38.32	382670	383169
wire	non noble metal	aluminium	7429-90-5	1.258	0.06	0.06	640	640
encapsulation	organic material	carbon black	1333-86-4	6.010	0.31		3059	
	plastics	epoxy resin	-	114.185	5.81		58121	
	inorganic material	silicondioxide	60676-86-0	480.779	24.47	30.59	244720	305900
leadfinish	non noble metal	tin	7440-31-5	14.487	0.74	0.74	7374	7374
plating	non noble metal	nickel	7440-02-0	0.198	0.01		101	
	inorganic material	phosphorus	7723-14-0	0.000	0.00	0.01	1	101
solder	non noble metal	antimony	7440-36-0	0.176	0.01		90	
	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	896
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		300	
	inorganic material	phosphorus	7723-14-0	0.177	0.01		90	
	non noble metal	copper	7440-50-8	589.466	30.00	30.04	300043	300433
*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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