



## Material Content Data Sheet



<b>Sales Product Name</b>				IDP15E65D1		<b>Issued</b>		20. July 2018	
<b>MA#</b>				MA001015614					
<b>Package</b>				PG-TO220-2-1		<b>Weight*</b>		1963.57 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	0.742	0.04	0.04	378	378	
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	38.29	38.34	382871	383370	
wire	non noble metal	aluminium	7429-90-5	2.544	0.13	0.13	1296	1296	
encapsulation	organic material	carbon black	1333-86-4	6.019	0.31		3065		
	plastics	epoxy resin	-	114.360	5.82		58241		
	inorganic material	silicondioxide	60676-86-0	481.514	24.52	30.65	245223	306529	
leadfinish	non noble metal	tin	7440-31-5	14.487	0.74	0.74	7378	7378	
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	0.070	0.00		36		
	noble metal	silver	7440-22-4	0.175	0.01		89		
	non noble metal	tin	7440-31-5	0.455	0.02	0.03	231	356	
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		301		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		90		
	non noble metal	copper	7440-50-8	589.466	30.02	30.06	300201	300592	
*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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