



## Material Content Data Sheet



<b>Sales Product Name</b>				IPW60R190E6		<b>Issued</b>		20. July 2018	
<b>MA#</b>				MA001108268					
<b>Package</b>				PG-TO247-3-44		<b>Weight*</b>		6052.68 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	8.148	0.13	0.13	1346	1346	
leadframe	non noble metal	iron	7439-89-6	0.530	0.01		88		
	inorganic material	phosphorus	7723-14-0	0.159	0.00		26		
	non noble metal	copper	7440-50-8	529.068	8.74	8.75	87410	87524	
wire	non noble metal	aluminium	7429-90-5	40.358	0.67	0.67	6668	6668	
encapsulation	organic material	carbon black	1333-86-4	19.671	0.32		3250		
	plastics	epoxy resin	-	373.740	6.17		61748		
	inorganic material	silicondioxide	60676-86-0	1573.641	26.00	32.49	259990	324988	
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5266	5266	
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4802	4802	
solder	non noble metal	antimony	7440-36-0	0.395	0.01		65		
	noble metal	silver	7440-22-4	0.987	0.02		163		
	non noble metal	tin	7440-31-5	2.567	0.04	0.07	424	652	
heatspreader	non noble metal	iron	7439-89-6	3.442	0.06		569		
	inorganic material	phosphorus	7723-14-0	1.033	0.02		171		
	non noble metal	copper	7440-50-8	3438.006	56.80	56.88	568014	568754	
*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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