



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA80R460CE		<b>Issued</b>		24. January 2018		
<b>MA#</b>		MA001621710						
<b>Package</b>		PG-TO220-3-312		<b>Weight*</b>		2058.58 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	9.366	0.46	0.46	4550	4550
leadframe	inorganic material	phosphorus	7723-14-0	0.285	0.01		138	
	non noble metal	iron	7439-89-6	0.949	0.05		461	
wire	non noble metal	copper	7440-50-8	947.445	46.01	46.07	460242	460841
	non noble metal	aluminium	7429-90-5	2.989	0.15	0.15	1452	1452
encapsulation	organic material	carbon black	1333-86-4	10.820	0.53		5256	
	plastics	epoxy resin	-	173.125	8.41		84099	
	inorganic material	silicondioxide	60676-86-0	898.086	43.63	52.57	436264	525619
leadfinish	non noble metal	tin	7440-31-5	11.095	0.54	0.54	5390	5390
solder	non noble metal	antimony	7440-36-0	0.442	0.02		215	
	noble metal	silver	7440-22-4	1.105	0.05		537	
	non noble metal	tin	7440-31-5	2.874	0.14	0.21	1396	2148
*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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