



## Material Content Data Sheet



Halogen-Free

Sales Product Name	IPA65R650CE	Issued	23. June 2021
MA#	MA005546740		
Package	PG-TO220-3-312	Weight*	2055.76 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	3.294	0.16	0.16	1602	1602
leadframe	inorganic material	phosphorus	7723-14-0	0.285	0.01		138	
	non noble metal	iron	7439-89-6	0.949	0.05		461	
	non noble metal	copper	7440-50-8	947.445	46.08	46.14	460872	461471
wire	non noble metal	aluminium	7429-90-5	1.001	0.05	0.05	487	487
encapsulation	organic material	carbon black	1333-86-4	10.875	0.53		5290	
	plastics	epoxy resin	-	174.587	8.49		84926	
	inorganic material	silicondioxide	60676-86-0	904.140	43.98	53.00	439808	530024
leadfinish	non noble metal	tin	7440-31-5	11.095	0.54	0.54	5397	5397
solder	non noble metal	antimony	7440-36-0	0.209	0.01		102	
	noble metal	silver	7440-22-4	0.523	0.03		255	
	non noble metal	tin	7440-31-5	1.361	0.07	0.11	662	1019
*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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