



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IPA60R280P7S E8228	<b>Issued</b>	06. April 2021
<b>MA#</b>	MA002478866		
<b>Package</b>	PG-TO220-3-312	<b>Weight*</b>	2055.77 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	3.030	0.15	0.15	1474	1474
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	46.09	46.15	460872	461471
wire	non noble metal	aluminium	7429-90-5	3.763	0.18	0.18	1830	1830
encapsulation	organic material	carbon black	1333-86-4	10.842	0.53		5274	
	plastics	epoxy resin	-	174.313	8.48		84793	
	inorganic material	silicondioxide	60676-86-0	902.052	43.88	52.89	438792	528859
leadfinish	non noble metal	tin	7440-31-5	11.095	0.54	0.54	5397	5397
solder	non noble metal	antimony	7440-36-0	0.199	0.01		97	
	noble metal	silver	7440-22-4	0.498	0.02		242	
	non noble metal	tin	7440-31-5	1.296	0.06	0.09	630	969
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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