



Material Content Data Sheet



Halogen-Free

Sales Product Name IPA60R299CP

Issued

09. February 2022

MA# MA005618795

Package PG-TO220-3-313

Weight*

2206.45 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	6.215	0.28	0.28	2817	2817
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		409	
	non noble metal	copper	7440-50-8	902.149	40.89	40.94	408869	409401
wire	non noble metal	aluminium	7429-90-5	2.107	0.10	0.10	955	955
encapsulation	organic material	carbon black	1333-86-4	2.319	0.11		1051	
	plastics	epoxy resin	-	214.228	9.71		97092	
	inorganic material	silicondioxide	60676-86-0	920.379	41.69	51.51	417132	515275
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3570	3570
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750
solder	non noble metal	antimony	7440-36-0	0.328	0.01		149	
	noble metal	silver	7440-22-4	0.820	0.04		372	
	non noble metal	tin	7440-31-5	2.132	0.10	0.15	966	1487
heatspreader	inorganic material	phosphorus	7723-14-0	0.044			20	
	non noble metal	iron	7439-89-6	0.145	0.01		66	
	non noble metal	copper	7440-50-8	144.874	6.57	6.58	65659	65745
*deviation	< 10%	Sum in total:				100.00		1000000

Important Remarks:

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