



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPP60R280P7	Issued	16. April 2021
MA#	MA005405408		
Package	PG-TO220-3-123	Weight*	2034.85 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	1489	1489
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	iron	7439-89-6	0.816	0.04		401	
	non noble metal	copper	7440-50-8	815.335	40.07	40.12	400684	401205
wire	non noble metal	aluminium	7429-90-5	0.689	0.03	0.03	339	339
encapsulation	organic material	carbon black	1333-86-4	2.996	0.15		1473	
	miscellaneous	miscellaneous	-	2.996	0.15		1473	
	organic material	phenol formaldehyde resin	9003-35-4	35.957	1.77		17671	
	inorganic material	silicon dioxide	14808-60-7	47.943	2.36		23561	
	non noble metal	metal hydroxide	-	47.943	2.36		23561	
	plastics	epoxy resin	29690-82-2	71.914	3.53		35341	
	inorganic material	silicon dioxide	60676-86-0	389.534	19.14	29.46	191431	294511
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10547	10547
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	867	867
solder	non noble metal	antimony	7440-36-0	0.199	0.01		98	
	noble metal	silver	7440-22-4	0.498	0.02		245	
	non noble metal	tin	7440-31-5	1.296	0.06	0.09	637	980
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		290	
	non noble metal	copper	7440-50-8	589.466	28.97	29.01	289685	290062
*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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