



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPP60R210CFD7	Issued	14. April 2021
MA#	MA005404821		
Package	PG-TO220-3-123	Weight*	2036.00 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	3.709	0.18	0.18	1822	1822
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	40.03	40.08	400457	400978
wire	non noble metal	aluminium	7429-90-5	3.193	0.16	0.16	1568	1568
encapsulation	organic material	carbon black	1333-86-4	2.985	0.15		1466	
	miscellaneous	miscellaneous	-	2.985	0.15		1466	
	organic material	phenol formaldehyde resin	9003-35-4	35.818	1.76		17592	
	inorganic material	silicondioxide	14808-60-7	47.757	2.35		23457	
	non noble metal	metal hydroxide	-	47.757	2.35		23457	
	plastics	epoxy resin	29690-82-2	71.636	3.52		35185	
	inorganic material	silicondioxide	60676-86-0	388.029	19.06	29.34	190584	293207
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10541	10541
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	866	866
solder	non noble metal	antimony	7440-36-0	0.228	0.01		112	
	noble metal	silver	7440-22-4	0.570	0.03		280	
	non noble metal	tin	7440-31-5	1.481	0.07	0.11	727	1119
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	28.95	28.99	289522	289899
*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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