



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPP50R190CE	Issued	14. February 2022
MA#	MA005623687		
Package	PG-TO220-3-123	Weight*	2037.42 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	6.706	0.33	0.33	3291	3291
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	40.02	40.07	400179	400700
wire	non noble metal	aluminium	7429-90-5	3.295	0.16	0.16	1617	1617
encapsulation	organic material	carbon black	1333-86-4	2.971	0.15		1458	
	miscellaneous	miscellaneous	-	2.971	0.15		1458	
	organic material	phenol formaldehyde resin	9003-35-4	35.648	1.75		17496	
	inorganic material	silicondioxide	14808-60-7	47.530	2.33		23329	
	non noble metal	metal hydroxide	-	47.530	2.33		23329	
	plastics	epoxy resin	29690-82-2	71.295	3.50		34993	
	inorganic material	silicondioxide	60676-86-0	386.182	18.95	29.16	189544	291607
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10534	10534
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	866	866
solder	non noble metal	antimony	7440-36-0	0.344	0.02		169	
	noble metal	silver	7440-22-4	0.860	0.04		422	
	non noble metal	tin	7440-31-5	2.236	0.11	0.17	1098	1689
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	28.93	28.97	289319	289696
*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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