



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPP50R380CE	Issued	15. April 2021
MA#	MA005403348		
Package	PG-TO220-3-123	Weight*	2035.23 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	3.808	0.19	0.19	1871	1871
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	400612	401133
wire	non noble metal	aluminium	7429-90-5	0.710	0.03	0.03	349	349
encapsulation	organic material	carbon black	1333-86-4	2.993	0.15		1470	
	miscellaneous	miscellaneous	-	2.993	0.15		1470	
	organic material	phenol formaldehyde resin	9003-35-4	35.912	1.76		17645	
	inorganic material	silicondioxide	14808-60-7	47.883	2.35		23527	
	non noble metal	metal hydroxide	-	47.883	2.35		23527	
	plastics	epoxy resin	29690-82-2	71.825	3.53		35291	
	inorganic material	silicondioxide	60676-86-0	389.051	19.12	29.41	191159	294089
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10545	10545
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	867	867
solder	non noble metal	antimony	7440-36-0	0.231	0.01		114	
	noble metal	silver	7440-22-4	0.579	0.03		284	
	non noble metal	tin	7440-31-5	1.504	0.07	0.11	739	1137
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	28.96	29.00	289632	290009
*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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