



Material Content Data Sheet



Halogen-Free

Sales Product Name	IPP80R450P7	Issued	24. June 2021
MA#	MA005406255		
Package	PG-TO220-3-123	Weight*	2035.88 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	3.428	0.17	0.17	1684	1684
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	400482	401003
wire	non noble metal	aluminium	7429-90-5	3.226	0.16	0.16	1585	1585
encapsulation	organic material	carbon black	1333-86-4	2.986	0.15		1467	
	miscellaneous	miscellaneous	-	2.986	0.15		1467	
	organic material	phenol formaldehyde resin	9003-35-4	35.832	1.76		17600	
	inorganic material	silicondioxide	14808-60-7	47.776	2.35		23467	
	non noble metal	metal hydroxide	-	47.776	2.35		23467	
	plastics	epoxy resin	29690-82-2	71.665	3.52		35201	
	inorganic material	silicondioxide	60676-86-0	388.183	19.07	29.35	190671	293340
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10542	10542
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	866	866
solder	non noble metal	antimony	7440-36-0	0.217	0.01		106	
	noble metal	silver	7440-22-4	0.542	0.03		266	
	non noble metal	tin	7440-31-5	1.408	0.07	0.11	692	1064
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	289539	289916
*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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