



Material Content Data Sheet



Halogen-Free

Sales Product Name	IP170R950CE	Issued	15. April 2021
MA#	MA005403366		
Package	PG-TO262-3-22	Weight*	1571.95 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	2.509	0.16	0.16	1596	1596
leadframe	inorganic material	phosphorus	7723-14-0	0.255	0.02		162	
	non noble metal	iron	7439-89-6	0.851	0.05		541	
	non noble metal	copper	7440-50-8	849.682	54.05	54.12	540528	541231
wire	non noble metal	aluminium	7429-90-5	0.692	0.04	0.04	440	440
encapsulation	organic material	carbon black	1333-86-4	2.965	0.19		1886	
	miscellaneous	miscellaneous	-	2.965	0.19		1886	
	organic material	phenol formaldehyde resin	9003-35-4	35.579	2.26		22634	
	inorganic material	silicondioxide	14808-60-7	47.439	3.02		30178	
	non noble metal	metal hydroxide	-	47.439	3.02		30178	
	plastics	epoxy resin	29690-82-2	71.158	4.53		45268	
	inorganic material	silicondioxide	60676-86-0	385.441	24.52	37.73	245200	377230
leadfinish	non noble metal	tin	7440-31-5	15.198	0.97	0.97	9668	9668
plating	non noble metal	nickel	7440-02-0	1.651	0.10	0.10	1050	1050
solder	non noble metal	antimony	7440-36-0	0.178	0.01		113	
	noble metal	silver	7440-22-4	0.444	0.03		283	
	non noble metal	tin	7440-31-5	1.155	0.07	0.11	735	1131
heatspreader	inorganic material	phosphorus	7723-14-0	0.032			20	
	non noble metal	iron	7439-89-6	0.106	0.01		68	
	non noble metal	copper	7440-50-8	106.210	6.76	6.77	67566	67654
*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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