

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	IPI65R190CFD	**Issued**	12. April 2021
MA#	MA005403013		
Package	PG-TO262-3-22	**Weight***	1575.95 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	9.459	0.60	0.60	6002	6002
leadframe	inorganic material	phosphorus	7723-14-0	0.255	0.02		162	
	non noble metal	iron	7439-89-6	0.851	0.05		540	
	non noble metal	copper	7440-50-8	849.682	53.91	53.98	539158	539860
wire	non noble metal	aluminium	7429-90-5	3.157	0.20	0.20	2003	2003
encapsulation	organic material	carbon black	1333-86-4	2.925	0.19		1856	
	miscellaneous	miscellaneous	-	2.925	0.19		1856	
	organic material	phenol formaldehyde resin	9003-35-4	35.095	2.23		22269	
	inorganic material	silicondioxide	14808-60-7	46.794	2.97		29692	
	non noble metal	metal hydroxide	-	46.794	2.97		29692	
	plastics	epoxy resin	29690-82-2	70.190	4.45		44539	
	inorganic material	silicondioxide	60676-86-0	380.198	24.13	37.13	241251	371155
leadfinish	non noble metal	tin	7440-31-5	15.198	0.96	0.96	9644	9644
plating	non noble metal	nickel	7440-02-0	1.651	0.10	0.10	1047	1047
solder	non noble metal	antimony	7440-36-0	0.442	0.03		281	
	noble metal	silver	7440-22-4	1.106	0.07		702	
	non noble metal	tin	7440-31-5	2.876	0.18	0.28	1825	2808
heatspreader	inorganic material	phosphorus	7723-14-0	0.032			20	
	non noble metal	iron	7439-89-6	0.106	0.01		67	
	non noble metal	copper	7440-50-8	106.210	6.74	6.75	67394	67481
*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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