



## Material Content Data Sheet



Halogen-Free

**Sales Product Name** IMD111T-6F040

**Issued**

08. February 2022

**MA#** MA004565642

**Package** PG-LQFP-40-1

**Weight\***

178.36 mg

Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip_1	inorganic material	silicon	7440-21-3	3.034	1.70	1.70	17014	17014
chip_2	inorganic material	silicon	7440-21-3	2.700	1.51	1.51	15136	15136
chip_3	inorganic material	silicon	7440-21-3	0.328	0.18	0.18	1837	1837
leadframe	inorganic material	phosphorus	7723-14-0	0.016	0.01		87	
	non noble metal	zinc	7440-66-6	0.062	0.03		348	
	non noble metal	iron	7439-89-6	1.242	0.70		6962	
	non noble metal	copper	7440-50-8	50.416	28.27	29.01	282671	290068
wire	noble metal	gold	7440-57-5	1.216	0.68	0.68	6820	6820
encapsulation	organic material	carbon black	1333-86-4	0.345	0.19		1936	
	plastics	epoxy resin	-	13.470	7.55		75522	
	inorganic material	silicondioxide	60676-86-0	101.312	56.82	64.56	568030	645488
leadfinish	noble metal	silver	7440-22-4	0.001			3	
	noble metal	palladium	7440-05-3	0.001			4	
	noble metal	gold	7440-57-5	0.001			6	
	non noble metal	nickel	7440-02-0	1.097	0.61	0.61	6149	6162
plating	noble metal	silver	7440-22-4	0.001			3	
	noble metal	palladium	7440-05-3	0.001			4	
	noble metal	gold	7440-57-5	0.001			6	
	non noble metal	nickel	7440-02-0	1.082	0.61	0.61	6067	6080
tape	plastics	acrylic resin	-	0.031	0.02		172	
	plastics	epoxy resin	-	0.071	0.04		401	
	plastics	silicone resin	-	0.102	0.06	0.12	573	1146
spacer	inorganic material	silicon	7440-21-3	1.828	1.02	1.02	10249	10249
*deviation	< 10%					Sum in total:	100.00	1000000

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