

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	TDA21490	**Issued**	27. April 2022
MA#	MA005725546		
Package	PG-IQFN-39-17	**Weight***	106.27 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	0.352	0.33	0.33	3315	3315
chip_2	inorganic material	silicon	7440-21-3	0.966	0.91	0.91	9089	9089
chip_3	inorganic material	silicon	7440-21-3	1.538	1.45	1.45	14475	14475
leadframe	inorganic material	phosphorus	7723-14-0	0.011	0.01		104	
	non noble metal	zinc	7440-66-6	0.044	0.04		415	
	non noble metal	iron	7439-89-6	0.882	0.83		8296	
	non noble metal	copper	7440-50-8	35.796	33.67	34.55	336842	345657
wire	noble metal	gold	7440-57-5	0.292	0.27	0.27	2747	2747
encapsulation	organic material	carbon black	1333-86-4	0.358	0.34		3371	
	non noble metal	metal hydroxide	-	0.716	0.67		6742	
	inorganic material	amorphous silica	7631-86-9	2.508	2.36		23598	
	plastics	epoxy resin	-	3.582	3.37		33711	
	inorganic material	silicondioxide	60676-86-0	28.660	26.97	33.71	269687	337109
leadfinish	noble metal	palladium	7440-05-3	0.006	0.01		55	
	noble metal	gold	7440-57-5	0.009	0.01		89	
	non noble metal	nickel	7440-02-0	0.172	0.16	0.18	1620	1764
plating	noble metal	silver	7440-22-4	0.760	0.72	0.72	7155	7155
solder	noble metal	silver	7440-22-4	0.099	0.09		932	
	non noble metal	tin	7440-31-5	0.198	0.19		1863	
	non noble metal	lead	7439-92-1	3.663	3.45	3.73	34471	37266
heat sink clip	inorganic material	phosphorus	7723-14-0	0.008	0.01		72	
	non noble metal	zinc	7440-66-6	0.031	0.03		290	
	non noble metal	iron	7439-89-6	0.616	0.58		5794	
	non noble metal	copper	7440-50-8	25.002	23.53	24.15	235267	241423
*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 contains Pb according RoHS exemption 7a, Lead in high melting temperature type solders.

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