



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	TDA21590	<b>Issued</b>	08. February 2022
<b>MA#</b>	MA005589943		
<b>Package</b>	PG-IQFN-39-11	<b>Weight*</b>	105.78 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	0.946	0.89	0.89	8941	8941
chip_2	inorganic material	silicon	7440-21-3	0.404	0.38	0.38	3816	3816
chip_3	inorganic material	silicon	7440-21-3	1.354	1.28	1.28	12804	12804
leadframe	inorganic material	phosphorus	7723-14-0	0.011	0.01		100	
	non noble metal	zinc	7440-66-6	0.042	0.04		402	
	non noble metal	iron	7439-89-6	0.850	0.80		8033	
	non noble metal	copper	7440-50-8	34.502	32.62	33.47	326180	334715
wire	noble metal	gold	7440-57-5	0.332	0.31	0.31	3137	3137
encapsulation	organic material	carbon black	1333-86-4	0.389	0.37		3679	
	non noble metal	metal hydroxide	-	0.778	0.74		7357	
	inorganic material	amorphous silica	7631-86-9	2.724	2.58		25751	
	plastics	epoxy resin	-	3.891	3.68		36787	
	inorganic material	silicon dioxide	60676-86-0	31.129	29.43	36.80	294293	367867
leadfinish	noble metal	palladium	7440-05-3	0.003			29	
	noble metal	gold	7440-57-5	0.005			46	
	non noble metal	nickel	7440-02-0	0.089	0.08	0.08	839	914
plating	noble metal	silver	7440-22-4	0.591	0.56	0.56	5587	5587
solder	noble metal	silver	7440-22-4	0.097	0.09		918	
	non noble metal	tin	7440-31-5	0.194	0.18		1835	
	non noble metal	lead	7439-92-1	3.592	3.40	3.67	33955	36708
heat sink clip	inorganic material	phosphorus	7723-14-0	0.007	0.01		68	
	non noble metal	zinc	7440-66-6	0.029	0.03		271	
	non noble metal	iron	7439-89-6	0.572	0.54		5412	
	non noble metal	copper	7440-50-8	23.245	21.98	22.56	219760	225511
*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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