



Material Content Data Sheet



Halogen-Free

Sales Product Name	TLE9872-2QTW40	Issued	08. February 2022
MA#	MA005350167		
Package	PG-TQFP-48-10	Weight*	145.59 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	7.490	5.14	5.14	51442	51442
leadframe	inorganic material	phosphorus	7723-14-0	0.017	0.01		115	
	non noble metal	zinc	7440-66-6	0.067	0.05		459	
	non noble metal	iron	7439-89-6	1.337	0.92		9182	
	non noble metal	copper	7440-50-8	54.283	37.28	38.26	372839	382595
wire	non noble metal	copper	7440-50-8	0.519	0.36	0.36	3567	3567
encapsulation	organic material	carbon black	1333-86-4	0.228	0.16		1566	
	plastics	epoxy resin	-	9.653	6.63		66298	
	inorganic material	silicondioxide	60676-86-0	66.124	45.43	52.22	454168	522032
leadfinish	noble metal	silver	7440-22-4	0.001			7	
	noble metal	palladium	7440-05-3	0.001			8	
	noble metal	gold	7440-57-5	0.002			12	
	non noble metal	nickel	7440-02-0	1.808	1.24	1.24	12421	12448
plating	noble metal	silver	7440-22-4	0.001			8	
	noble metal	palladium	7440-05-3	0.001			9	
	noble metal	gold	7440-57-5	0.002			14	
	non noble metal	nickel	7440-02-0	2.052	1.41	1.41	14092	14123
glue	plastics	epoxy resin	-	0.502	0.34		3448	
	noble metal	silver	7440-22-4	1.506	1.03	1.37	10345	13793
*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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