



Material Content Data Sheet



Halogen-Free

Sales Product Name	TLD5190QU	Issued	24. June 2021
MA#	MA005543403		
Package	PG-TQFP-48-9	Weight*	144.60 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	2.441	1.69	1.69	16884	16884
leadframe	inorganic material	phosphorus	7723-14-0	0.017	0.01		116	
	non noble metal	zinc	7440-66-6	0.067	0.05		462	
	non noble metal	iron	7439-89-6	1.337	0.92		9246	
	non noble metal	copper	7440-50-8	54.283	37.54	38.52	375416	385240
wire	non noble metal	copper	7440-50-8	0.597	0.41	0.41	4127	4127
encapsulation	organic material	carbon black	1333-86-4	0.404	0.28		2795	
	plastics	epoxy resin	-	10.913	7.55		75476	
	inorganic material	silicondioxide	60676-86-0	69.523	48.09	55.92	480809	559080
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	1.25	1.25	12506	12533
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	1.42	1.42	14190	14221
glue	plastics	epoxy resin	-	0.229	0.16		1583	
	noble metal	silver	7440-22-4	0.916	0.63	0.79	6332	7915
*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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