

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	TLE7184F	**Issued**	4. July 2019
MA#	MA005346153		
Package	PG-VQFN-48-72	**Weight***	228.44 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	5.659	2.48	2.48	24773	24773
leadframe	inorganic material	phosphorus	7723-14-0	0.032	0.01		139	
	non noble metal	zinc	7440-66-6	0.127	0.06		556	
	non noble metal	iron	7439-89-6	2.541	1.11		11122	
	non noble metal	copper	7440-50-8	103.165	45.17	46.35	451612	463429
wires	noble metal	palladium	7440-05-3	0.012	0.01		51	
	non noble metal	copper	7440-50-8	1.146	0.50	0.51	5018	5069
encapsulation	organic material	carbon black	1333-86-4	0.331	0.14		1448	
	plastics	epoxy resin	-	17.306	7.58		75756	
	inorganic material	silicondioxide	60676-86-0	92.591	40.53	48.25	405321	482525
leadfinish	noble metal	silver	7440-22-4	0.001	0.00		4	
	noble metal	palladium	7440-05-3	0.001	0.00		5	
	noble metal	gold	7440-57-5	0.002	0.00		7	
	non noble metal	nickel	7440-02-0	1.703	0.75	0.75	7457	7473
plating	noble metal	palladium	7440-05-3	0.001	0.00		5	
	noble metal	silver	7440-22-4	0.001	0.00		5	
	noble metal	gold	7440-57-5	0.002	0.00		9	
	non noble metal	nickel	7440-02-0	2.037	0.89	0.89	8917	8936
glue	plastics	epoxy resin	-	0.285	0.12		1247	
	noble metal	silver	7440-22-4	1.496	0.65	0.77	6548	7795
*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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