



Material Content Data Sheet



Sales Product Name		TLD5541-1QU		Issued		2. August 2018			
MA#		MA001679704							
Package		PG-TQFP-48-9		Weight*		144.57 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	16887	16887	
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		9248	
wire	non noble metal	copper	7440-50-8	54.283	37.55	38.53	375493	385319	
		copper	7440-50-8	0.558	0.39	0.39	3862	3862	
		encapsulation	organic material	carbon black	1333-86-4	0.404	0.28		2796
encapsulation	plastics	epoxy resin	-	10.915	7.55		75499		
		inorganic material	silicondioxide	60676-86-0	69.530	48.10	55.93	480960	559255
		leadfinish	noble metal	silver	7440-22-4	0.001	0.00		7
palladium	7440-05-3			0.001	0.00		8		
gold	7440-57-5			0.002	0.00		12		
plating	non noble metal	nickel	7440-02-0	1.808	1.25	1.25	12509	12536	
		noble metal	silver	7440-22-4	0.001	0.00		8	
		noble metal	palladium	7440-05-3	0.001	0.00		9	
glue	noble metal	gold	7440-57-5	0.002	0.00		14		
		non noble metal	nickel	7440-02-0	2.052	1.42	1.42	14193	14224
		plastics	epoxy resin	-	0.229	0.16		1583	
*deviation	< 10%			0.916	0.63	0.79	6334	7917	
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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