



Material Content Data Sheet



Sales Product Name		TLE7189F		Issued		20. July 2018		
MA#		MA001335658						
Package		PG-VQFN-48-72		Weight*		229.41 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	9.357	4.08	4.08	40786	40786
leadframe	inorganic material	phosphorus	7723-14-0	0.032	0.01		138	
	non noble metal	zinc	7440-66-6	0.127	0.06		554	
	non noble metal	iron	7439-89-6	2.541	1.11		11075	
wire	non noble metal	copper	7440-50-8	103.165	44.97	46.15	449692	461459
	noble metal	palladium	7440-05-3	0.011	0.00		48	
encapsulation	non noble metal	copper	7440-50-8	1.092	0.48	0.48	4762	4810
	organic material	carbon black	1333-86-4	0.320	0.14		1397	
	plastics	epoxy resin	-	16.767	7.31		73086	
leadfinish	inorganic material	silicondioxide	60676-86-0	89.709	39.10	46.55	391035	465518
	noble metal	palladium	7440-05-3	0.001	0.00		5	
	noble metal	silver	7440-22-4	0.001	0.00		4	
	noble metal	gold	7440-57-5	0.002	0.00		7	
plating	non noble metal	nickel	7440-02-0	1.703	0.74	0.74	7425	7441
	noble metal	silver	7440-22-4	0.001	0.00		5	
	noble metal	gold	7440-57-5	0.002	0.00		9	
	noble metal	palladium	7440-05-3	0.001	0.00		5	
glue	non noble metal	nickel	7440-02-0	2.037	0.89	0.89	8879	8898
	plastics	epoxy resin	-	0.407	0.18		1774	
*deviation	< 10%			2.137	0.93	1.11	9314	11088
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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