



Material Content Data Sheet



Sales Product Name		TLS820F0EL V33		Issued		27. September 2017		
MA#		MA001338860						
Package		PG-SSOP-14-5		Weight*		82.85 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	1.743	2.10	2.10	21039	21039
leadframe	inorganic material	phosphorus	7723-14-0	0.009	0.01		104	
	non noble metal	zinc	7440-66-6	0.034	0.04		416	
	non noble metal	iron	7439-89-6	0.689	0.83		8317	
wire	non noble metal	copper	7440-50-8	27.978	33.77	34.65	337694	346531
	non noble metal	copper	7440-50-8	0.086	0.10	0.10	1033	1033
	encapsulation	organic material	carbon black	1333-86-4	0.100	0.12		1207
	plastics	epoxy resin	-	4.600	5.55		55525	
	inorganic material	silicondioxide	60676-86-0	45.302	54.69	60.36	546799	603535
leadfinish	non noble metal	tin	7440-31-5	0.976	1.18	1.18	11782	11782
plating	noble metal	silver	7440-22-4	0.768	0.93	0.93	9265	9265
glue	plastics	epoxy resin	-	0.141	0.17		1704	
	noble metal	silver	7440-22-4	0.423	0.51	0.68	5111	6815
heatspreader	non noble metal	copper	7440-50-8	0.000	0.00		1	
	non noble metal	iron	7439-89-6	0.000	0.00		1	
	inorganic material	phosphorus	7723-14-0	0.000	0.00		1	
	non noble metal	zinc	7440-66-6	0.000	0.00	0.00	1	0
*deviation	< 10%		Sum in total:			100.00		1000000

Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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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