



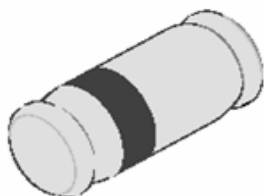
SEMICONDUCTOR Small Signal Products

MATERIAL CONTENT LIST

PACKAGE
FAMILY:
DATE:
REVISION:

SOD-80 MiniMELF

6-May-2010
11



RoHS
COMPLIANT



MATERIAL CONTENT					
Part	Material	CAS N°	weight mg	% of weight	ppm of total weight
Plug 56.8%	Fe	7439-89-6	7.7	44.0%	249981
	Cu	7440-50-8	4.2	24.0%	136353
	Ni	7440-02-0	5.6	32.0%	181804
	CuO	1317-38-0	Trace		
	TOTAL		17.50		
Terminal finish 1.6%	Sn	7440-31-5	0.468	97.5%	15194
	Ag	7440-22-4	0.012	2.5%	390
	TOTAL		0.48		
Package Glass 41.2%	PbO *)	1317-36-8	7.783	61.3%	252661
	SiO ₂	14808-60-7	4.049	31.9%	131443
	K ₂ O	12136-45-7	0.445	3.5%	14431
	Na ₂ O	1313-59-3	0.003	0.02%	82
	Al ₂ O ₃	1344-28-1	0.015	0.12%	495
	B ₂ O ₃	1303-86-2	0.381	3.0%	12369
	Sb ³⁺ **)	7440-36-0	0.025	0.2%	825
	TOTAL		12.700		
Silicon Chip 0.3%	Si	7440-21-3	0.0741	80.19%	2406
	Ag	7440-22-4	0.0153	16.56%	497
	SiO ₂	14808-60-7	0.0015	1.62%	49
	PbO *)	1317-36-8	0.0013	1.41%	42
	Ni	7440-02-0	0.0002	0.22%	6
	TOTAL		0.092		
Ink 0.1%	Acrylate	Trade Secret	0.0136	45.18%	440
	Acrylat Monomer	Trade Secret	0.0066	21.84%	213
	Filler	Trade Secret	0.0066	21.89%	213
	Pigment	Trade Secret	0.0015	5.00%	49
	Diphenyl	75980-60-8	0.0006	2.00%	19
	Phosphin oxide	162881-26-7	0.0006	1.93%	19
	Diacrylate	42978-66-5	0.0006	1.91%	19
	Cl	7782-50-5	0.00008	0.25%	2
	TOTAL		0.030		
Total weight			30.802		

Remark: Total weight range $\pm 10\%$

*) Pb in glass of electronic components acc. ROHS exempted

**) Antimony present as ion

Reflow Soldering acc. J-STD-020D

Material Analyses Reports available on request



20 March 2016

Certificate of Compliance

Vishay hereby certifies that all products listed in Annex – I, are RoHS Compliant and fulfills the definition and restrictions defined under Directive 2011/65/EU with amendment 2015/863/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

The information provided here is accurate to the best of our knowledge at the present time.

Note: "Please refer to the product datasheet for product specific RoHS compliance status. Components must be handled, stored, transported and disposed of in accordance with applicable laws, rules and regulations".

A rectangular box containing a handwritten signature in black ink, which appears to be "Li Ming".

Li Ming

RoHS Engineer

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Annex - 1

SR. No.	Vishay Part # / Part family	ROHS Status	Exemptions	China RoHS EFUP
1	LL4148 / SOD80	Compliant with	7c-I	50 years
2				

7(c)-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.