



## Material Declaration Sheet

Vishay Inter-technology

Date: 3/19/2021

### Part / Product Family Details

Part / Family Series	RoHS Compliance Status	RoHS Compliance Date Code	Total product Weight (mg)	Value Range	Product Type	Manufacturing Location	Number of Exemptions Used
T93 Series	YES WITH EXEMPTION	01-Jan-2005	814.8961		Trimmer	199 bd de la Madeleine BP 1159 06003 NICE Cedex 1	2

### Material Composition

Homogenous Material Name	Material Classification	Substance Name	CAS number	Weight of Substance (mg)	With respect to Homogenous Material		% with respect to Total Product Weight	RoHS Exemptions Used
					%	ppm		
Coating on Lead Frame	Electronics (e.g. pc boards, displays)	Tin	7440-31-5	0.10000	100.00	1000000	0.01	0 - None
				0.10000				
Conductor	Other special metals	Palladium	7440-05-3	0.10000	10.00	100000	0.01	0 - None
		Silver	7440-22-4	0.90000	90.00	900000	0.11	0 - None
Housing	Electronics (e.g. pc boards, displays)	Antimony trioxide	1309-64-4	0.03400	0.01	100	0.00	0 - None
		PBT	30965-26-5	238.00000	70.06	700631	29.21	0 - None
		SI	65997-17-3	101.66000	29.93	299269	12.48	0 - None
				339.69400				
Ink for stamping	Electronics (e.g. pc boards, displays)			0.10000				
		Methylethylcetone	78-93-3	0.10000	100.00	1000000	0.01	0 - None
Lead Frame	Copper alloys			75.00000				
		Copper	7440-50-8	75.00000	100.00	1000000	9.20	0 - None
Lubricant	Lubricants			2.00000				
		Polyorganosiloxane	68957-05-1	2.00000	100.00	1000000	0.25	0 - None
Resin for Molding	Duromers	Aluminium hydroxide	21645-51-2	4.65000	5.00	50000	0.57	0 - None
		Amorphous silica	7631-86-9	0.93000	1.00	10000	0.11	0 - None
		N-Butanol	71-36-3	0.93000	1.00	10000	0.11	0 - None
		resine epoxydique	25068-38-6	85.56000	92.00	920000	10.50	0 - None
		Sodium sulfite	91829-63-9	0.93000	1.00	10000	0.11	0 - None
				3.00000				
Resistive layer	Other special metals	Lead Oxide	1317-36-8	0.93000	31.00	310000	0.11	34
		Manganous Oxide	1344-43-0	0.33000	11.00	110000	0.04	0 - None
		Ruthenium Dioxide	12036-10-1	1.32000	44.00	440000	0.16	0 - None
		Terpineol	8000-41-7	0.42000	14.00	140000	0.05	0 - None
				54.00000				
Rotor	Electronics (e.g. pc boards, displays)	Polyetherimide	61128-46-9	83.00000	100.00	1000000	6.63	0 - None
				54.00000				
Screw	Copper alloys	Copper	7440-50-8	53.12000	64.00	640000	6.52	0 - None
		Lead	7439-92-1	2.49000	3.00	30000	0.31	6(c)
		Zinc	7440-66-6	27.39000	33.00	330000	3.36	0 - None
Solder	Other special metals			10.00000				
		Silver	7440-22-4	1.00000	10.00	100000	0.12	0 - None
Substrate	Ceramics / glass	Tin	7440-31-5	9.00000	90.00	900000	1.10	0 - None
				151.00000				
Wiper	Nickel alloys	Alumina	1344-28-1	151.00000	100.00	1000000	18.53	0 - None
				3.00210				
		Chromium	7440-47-3	0.00180	0.06	600	0.00	0 - None
		Cobalt	7440-48-4	0.00300	0.10	999	0.00	0 - None
		Molybdenum	7439-98-7	0.00030	0.01	100	0.00	0 - None
Nickel	7440-02-0	2.99700	99.83	998301	0.37	0 - None		

**EU-RoHS Directive-2011/65/EU** MCV of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE) and MCV of 0.01% by mass cadmium

Exemption Used NONE

**Note** -> (i) All information is based on data received from our vendors & subjected to change without prior notice.  
(ii) Substance weight are derived from MSDS.