



Material Declaration Sheet

Vishay Inter-technology

Date: 4/25/2022

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
CRCW1206 HP series	YES WITH EXEMPTION	16-Oct-2004	9.148975	All R values	Resistor	Vishay BCComponents Buechling	1

Technical Information							
Terminal Plating / Grid Array Material	Terminal Base Alloy	JESD-97 Pb-Free Material Code Marking	J-STD-20D MSL Rating	Reflow Peak Process Body Temperature	Reflow Maximum number of cycles	Reflow Max. Time at Peak Temperature (sec)	Soldering Compatibility (SnPb/Pb-Free)
Sn	Other	e3	1	260 °C	3	40	Backward & Forward

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		
Ceramic substrate	Ceramics / glass	Aluminium oxide	1344-28-1	7.61367	95.64	956399	83.22	0 - None
		Magnesium oxide	1309-48-4	0.07881	0.99	9899	0.86	0 - None
		Miscellaneous	System	0.03663	0.46	4601	0.40	0 - None
		Silicon dioxide	7631-86-9	0.23167	2.91	29101	2.53	0 - None
						7.96077		
EP-QD 80	Other duromers	Epoxy resin	25068-38-6	0.03947	16.00	160000	0.43	0 - None
		Silicon dioxide	7631-86-9	0.20773	84.00	840000	2.27	0 - None
Glass electrical contact	ceramic/glass			0.00960				
		Lead silicate [Glass]	10099-76-0	0.00959	99.90	999000	0.10	7(c)-I
Glass enamel	Ceramics / glass	Miscellaneous	System	0.00001	0.10	1000	0.00	0 - None
				0.07050				
Glass layer	Ceramic/Glass	Chromium oxide (III)	1308-38-9	0.00148	2.10	20993	0.02	0 - None
		Lead silicate [Glass]	10099-76-0	0.06902	97.90	979007	0.75	7(c)-I
Nickel plating	Nickel alloy			0.08844				
		Lead silicate [Glass]	10099-76-0	0.04620	52.24	522388	0.50	7(c)-I
		Palladium	7440-05-3	0.03960	44.78	447761	0.43	0 - None
Silver electrical contact alloy	Other special metals	Ruthenium oxide	12036-10-1	0.00264	2.99	29851	0.03	0 - None
				0.15100				
		Miscellaneous	System	0.00015	0.10	1000	0.00	0 - None
Silver layer	Other special metals	Nickel	7440-02-0	0.15085	99.90	999000	1.65	0 - None
				0.29800				
		Chromium	7440-47-3	0.00000	0.00	6	0.00	0 - None
Sn99.9	Other special metals	Copper	7440-50-8	0.00000	0.00	9	0.00	0 - None
		Silver	7440-22-4	0.29800	100.00	999985	3.26	0 - None
				0.04356				
		Miscellaneous	System	0.00004	0.10	1000	0.00	0 - None
		Silver	7440-22-4	0.04352	99.90	999000	0.48	0 - None
				0.28040				
		Miscellaneous	System	0.00028	0.10	1000	0.00	0 - None
		Tin	7440-31-5	0.28012	99.90	999000	3.06	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 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

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.