



# Material Declaration Sheet

MLCC Sub-Division

Date: 10/10/2015

## Part / Product Family Details

Vishay Part Number	RoHS Compliance Status	RoHS Compliance Date Code dd-mmm-yyyy	Total product Weight (mg)	Value Range	3rd Party Lab ICP Test Report Available	Manufacturing Location	Number of Exemptions Used
VJ0402Y...W1BC	YES	1-Feb-2004	1.34	-	Yes	China	None

## 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)
Matte Sn w/ Nickel underplate	Other	e3	1	260 ° C	2	10	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		
Dielectric	Ceramic	Barium Titanium Trioxide	12047-27-7	1.21404				
				1.21404	100.00	1000000	90.60	0 - None
Electrode	Conductive paste	Barium Titanium Trioxide	12047-27-7	0.04020				
				0.00804	20.00	200000	0.60	0 - None
		Nickel	7440-02-0	0.03216				
				80.00	800000	2.40	0 - None	
Ni Plating	Ni Plating	Nickel	7440-02-0	0.00268				
				0.00268	100.00	1000000	0.20	0 - None
Sn Plating	Sn Plating	Tin	7440-31-5	0.00268				
				0.00268	100.00	1000000	0.20	0 - None
Termination	Conductive paste	Frits, Chemicals	65997-17-3	0.00965				
				0.08040				
		Copper	7440-50-8	0.07075	88.00	880000	5.28	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.

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