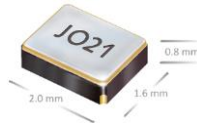


JO21 Material Declaration

Type
SMD

Total Weight (mg)
8.862



RoHS compliant



Pb free



REACH compliant



Part	Weight of part (mg)	Material Name	CAS No.	Substance	Weight per Material (%)	Weight (mg)
Base	7.1	Ceramic	1344-28-1	Al2O3	64.880	4.60648
			1317-34-6	Mn2O3	2.400	0.17040
			14808-60-7	SiO2	2.260	0.16046
			1313-27-5	MoO3	0.280	0.01988
			1309-48-4	MgO	0.140	0.00994
			7439-98-7	Mo	10.300	0.73130
			7440-02-0	Ni	5.500	0.39050
			7440-48-4	Co	2.400	0.17040
			7440-57-5	Au	0.850	0.06035
			7440-28-0	Tl	0.000	0.00000
			7439-89-6	Fe	5.640	0.40044
Lid	1.52	Kovar	7440-22-4	Ag	4.500	0.31950
			7440-50-8	Cu	0.850	0.06035
			7439-89-6	Fe	48.142	0.72995
			7440-02-0	Ni	34.820	0.52796
			7440-48-4	Co	16.295	0.24707
			7439-96-5	Mn	0.453	0.00686
Blank	0.01	Quartz	14808-60-7	SiO2	100.000	0.01000
Electrode	0.01	Metal	7440-22-4	Ag	99.500	0.00995
			7440-47-3	Cr	0.500	0.00005
Adhesive	0.01	Silver Silicone Resin	68083-19-2	Siloxane	15.000	0.00150
			7440-22-4	Ag	78.000	0.00780
			7631-86-9	SiO2	7.000	0.00070
Gold wire	0.026	Metal	7440-57-5	Au	100.000	0.02600
IC Die	0.08	IC Die	7440-21-3	Si	99.955	0.07996
			7429-90-5	Al	0.013	0.00001
			7440-32-6	Ti	0.013	0.00001
			7440-33-7	W	0.019	0.00002
IC Adhesive	0.11	Epoxy resin	7440-22-4	Ag	72.000	0.07920
			61788-97-4	Cured Epoxy Resin	28.000	0.03080