

MTF32 material declaration

Part weight: 140 mg



RoHS (2011/65/EC) compliant

Component Name	Sub-part Name	Material Name	Mass (mg)	Substance Name	CAS No.	Mass (mg)	Content (wt%)	Purpose of use
Crystal blank		Quartz	4.7	Quartz (SiO ₂)	14808-60-7	4.7	100	Main material
Can		Nickel silver	89.35	Copper (Cu)	7440-50-8	56.9306	63.72	Main material
				Zinc (Zn)	7440-66-6	17.1828	19.232	Main material
	Nickel (Ni)			7440-02-0	15.135	16.94	Main material	
	Manganese (Mn)			7439-96-5	0.0536	0.06	Alloy material	
	Iron (Fe)			7439-89-6	0.042	0.047	Alloy material	
	Lead (Pb)			7439-92-1	0.0009	0.001	Impurity	
	Plating	Ni	5.46	Nickel (Ni)	7440-02-0	5.455	100	Main material
Base	Shell	Alloy 42	16.3	Iron (Fe)	7439-89-6	9.2388	56.68	Main material
				Nickel (Ni)	7440-02-0	6.683	41	Main material
				Cobalt (Co)	7440-48-4	0.163	1	Alloy material
				Manganese (Mn)	7439-96-5	0.1304	0.8	Alloy material
				Silicon (Si)	7440-21-3	0.0489	0.3	Alloy material
				Chromium (Cr)	7440-47-3	0.0326	0.2	Alloy material
				Carbon (C)	7440-44-0	0.0033	0.02	Alloy material
	Lead	Kovar	18.4	Iron (Fe)	7439-89-6	9.8631	53.60	Main material
				Nickel (Ni)	7440-02-0	5.4096	29.4	Main material
				Cobalt (Co)	7440-48-4	3.0544	16.6	Main material
Manganese (Mn)				7439-96-5	0.0552	0.3	Alloy material	
Silicon (Si)				7440-21-3	0.011	0.06	Alloy material	
Aluminium (Al)				7429-90-5	0.0022	0.012	Alloy material	
Titanium (Ti)				7440-32-6	0.0018	0.01	Alloy material	
Magnesium (Mg)				7439-95-4	0.0009	0.005	Alloy material	
Glass	Glass	5.86	Silicon dioxide (SiO ₂)	7631-86-9	5.86	100	Glass material	
			Boron oxide (B ₂ O ₃)	1303-86-2				
			Aluminium oxide (Al ₂ O ₃)	1344-28-1				
			Barium oxide (BaO)	1304-28-5				
			Sodium oxide (Na ₂ O)	1313-59-3				
			Potassium oxide (K ₂ O)	12136-45-7				
			Lithium oxide (Li ₂ O)	12057-24-8				
			Fluorine (F ₂)	7782-41-4				
			Chromium(III)oxide (Cr ₂ O ₃)	1308-38-9				
			Iron(III)oxide (Fe ₂ O ₃)	1309-37-1				
Zinc oxide (ZnO)	1314-13-2							
	Under plating	Cu	0.81	Copper (Cu)	7440-50-8	0.81	100	Main material
	Solder plating	Sn	1.23	Tin (Sn)	7440-31-5	1.23	100	Main material
Electrode	Electrode 1	Ag	0.019	Silver (Ag)	7440-22-4	0.019	100	Main material
	Electrode 2	Sn	0.0071	Tin (Sn)	7440-31-5	0.0071	100	Main material
	Electrode 3	Cr	0.0052	Chromium (Cr)	7440-47-3	0.0052	100	Main material
Internal solder		Sn-Ag-Cu	0.56	Tin (Sn)	7440-31-5	0.5387	96.2	Main material
				Silver (Ag)	7440-22-4	0.0151	2.7	Solder material
				Copper (Cu)	7440-50-8	0.0062	1.1	Solder material
Ink		Ink	0.01	Resin	-	0.0078	77.5	Main material
				Carbon black	1333-86-4	0.0023	22.5	Pigment