



Material Composition Declaration

Type: KX-7 (3.2x2.5x0.7)

Breakdown of component	Material Name	Substance Name	CAS No.	Substance Mass		Material Mass (wt%)
				(mg)	(wt%)	
Lid	Kovar Lid	Nickel (Ni)	7440-02-0	1.37100	30.0	6.6180
		Cobalt (Co)	7440-48-4	0.79975	17.5	3.8605
		Iron (Fe)	7439-89-6	2.39925	52.5	11.5815
Blank	Crystal Blank	Silicon dioxide (SiO ₂)	14808-60-7	1.37626	99.97	6.6434
		Aluminum oxide (Al ₂ O ₃)	1344-28-1	0.00019	0.014	0.0009
		Ferric oxide (Fe ₂ O ₃)	1309-37-1	0.00022	0.016	0.0011
Base	Ceramic	Aluminum oxide (Al ₂ O ₃)	1344-28-1	7.9093	90.0	38.1791
		Silicon oxide (SiO ₂)	7631-86-9	0.5273	6.0	2.5453
		Chromium oxide (Cr ₂ O ₃)	1308-38-9	0.1758	2.0	0.8484
		Molybdenum (Mo)	7439-98-7	0.1758	2.0	0.8484
	Metallizing	Tungsten (W)	7440-33-7	2.3851	100.0	11.5130
	Pin (Seal ring)	Iron (Fe)	7439-89-6	1.4658	53.0	7.0754
		Nickel (Ni)	7440-02-0	0.8020	29.0	3.8715
		Cobalt (Co)	7440-48-4	0.4978	18.0	2.4030
	Solder	Silver (Ag)	7440-22-4	0.5236	71.0	2.5276
		Copper (Cu)	7440-50-8	0.2139	29.0	1.0324
	Ni Plate	Nickel (Ni)	7440-02-0	0.0369	100.0	0.1780
Au Plate	Gold (Au)	7440-57-5	0.0369	100.0	0.1780	
Adhesive	DOTITE	Silver (Ag)	7440-22-4	0.00027	76.3	0.0013
		Silicone Resin	NA	0.00005	14.6	0.0002
		n-Dodecane (C ₁₂ H ₂₆)	112-40-3	0.00003	8.3	0.0001
		Alkoxysilane (C ₁₁ H ₂₂ O ₄ Si)	3388-04-3	0.000003	0.8	0.00001
Electrode	Ag	Silver (Ag)	7440-22-4	0.01925	100.0	0.0929
TOTAL				20.7163		100.0000