

## JOE75 Series Material Declaration



Total Weight: 158 mg

RoHS (2011/65/EC) compliant

Part	Weight of parts (mg)	Content substance			CAS No	Content (mg)	Content (wt%)
Crystal blank	0.3380	Quartz	Quartz	SiO <sub>2</sub>	14808-60-7	0.3380	0.2133
Electrode	0.0283	Ag-Cr	Silver	Ag	7440-22-4	0.0280	0.0177
			Chromium	Cr	7440-47-3	0.0003	0.0002
Conductive adhesive	0.0790	Silicon resin	Silicon	Si	7440-21-3	0.0010	0.0006
			Silver	Ag	7440-22-4	0.0780	0.0492
Base	138.8102	Ceramic	Aluminium oxide	Al <sub>2</sub> O <sub>3</sub>	1344-28-1	101.6360	64.1322
			Silicon dioxide	SiO <sub>2</sub>	7631-86-9	3.6890	2.3278
			Chromium oxide	Cr <sub>2</sub> O <sub>3</sub>	1308-38-9	0.7662	0.4835
			Molybdenum	Mo	7439-98-7	1.0390	0.6556
		Gold plate	Gold	Au	7440-57-5	1.9500	1.2304
		Kovar	Iron	Fe	7439-89-6	11.5726	7.3023
			Nickel	Ni	7440-02-0	6.2153	3.9218
			Cobalt	Co	7440-48-4	3.6442	2.2995
		Ag-Cu	Silver	Ag	7440-22-4	3.3899	2.1390
			Copper	Cu	7440-50-8	0.5981	0.3774
		Ni	Nickel	Ni	7440-02-0	1.7600	1.1106
		Mo-W	Molybdenum	Mo	7439-98-7	0.0800	0.0505
Tungsten	W		7440-33-7	2.4700	1.5586		
IC	10.6734	Au Wire	Gold	Au	7440-57-5	7.5150	4.7420
		Si-Al	Silicon	Si	7440-21-3	2.4689	1.5579
			Aluminium	Al	7429-90-5	0.6895	0.4351
Metal Cap	8.5500	Kovar	Iron	Fe	7439-89-6	3.6847	2.3251
			Nickel	Ni	7440-02-0	2.1975	1.3866
			Cobalt	Co	7440-48-4	1.2011	0.7579
		Ni	Nickel	Ni	7440-02-0	0.4000	0.2524
			Ag Filler	Silver	Ag	7440-22-4	0.2900
		Copper		Cu	7440-50-8	0.1100	0.0694
		Nickel plating	Nickel	Ni	7440-02-0	0.6662	0.4204
			Phosphorus	P	7723-14-0	0.0005	0.0003