

Materials Declaration

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Product Family : 7x5mm Oscillator Type (F33xx series, F4xxx series)

	Material Name	Component	Content (mg)	Content (w t %)	(CAS Number)
Cover	Kovar	Nickel (Ni)	6.15	4.44%	7440-02-0
		Cobalt (Co)	3.58	2.58%	7440-48-4
		Iron (Fe)	11.50	8.29%	7439-89-6
	Plating*	Nickel (Ni)	0.88	0.63%	7440-02-0
Base	Ceramic	Alumina (Al ₂ O ₃)	77.9	56.2%	1344-28-1
		Silicon Dioxide (SiO ₂)	3.09	2.23%	7631-86-9
		Chromium Oxide (Cr ₂ O ₃)	3.32	2.39%	1308-38-9
		Titanium Oxide (TiO ₂)	0.859	0.620%	13463-67-7
	Metallization	Tungsten (W)	10.30	7.43%	7440-33-7
	Nickel Plating	Nickel (Ni)	1.32	0.95%	7440-02-0
		Cobalt (Co)	0.33	0.24%	7440-48-4
	Gold Plating	Gold (Au)	0.458	0.330%	7440-57-5
	Seal ring	Iron (Fe)	5.809	4.19%	7439-89-6
		Nickel (Ni)	3.119	2.25%	7440-02-0
		Cobalt (Co)	1.829	1.32%	7440-48-4
	Silver solder	Silver (Ag)	1.70	1.23%	7440-22-4
		Copper (Cu)	0.300	0.216%	7440-50-8
I C	I C	Aluminum (Al)	0.0016	0.00115%	7429-90-5
		Molybdenum (Mo)	0.0003	0.000216%	7439-98-7
		Silicon (Si)	0.998	0.72%	7440-21-3
	Gold Wire	Gold (Au)	0.287	0.207%	7440-57-5
	Adhesive	Silver (Ag)	0.000188	0.000136%	7440-22-4
		Epoxy	0.0000625	0.0000451%	
Crystal	Crystal	Quartz (SiO ₂)	4.90	3.53%	14808-60-7
	Electrode	Silver (Ag)	0.019	0.0137%	7440-22-4
		Nickel (Ni)	0.000159	0.000115%	7440-02-0
	Adhesive	Silver (Ag)	0.00037	0.000267%	7440-22-4
		Silicon (Si)	0.000125	0.000090%	7440-21-3
TOTAL			138.7	100.00%	