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Materials Declaration

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Completed by Bruce Clark

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Product Family : XpressO 5x3.2mm Ceramic

	Material Name	Component	Content (mg)	Content (wt %)	(CAS Number)
Cover	Kovar	Nickel (Ni)	1.780	3.91%	7440-02-0
		Cobalt (Co)	1.040	2.28%	7440-48-4
		Iron (Fe)	3.270	7.17%	7439-89-6
	Nickel Plating	Nickel (Ni)	0.330	0.72%	7440-02-0
		Phosphorus (P)	0.040	0.09%	7723-14-0
Base	Ceramic	Alumina (Al ₂ O ₃)	25.440	55.81%	1344-28-1
		Silicon Oxide (SiO ₂)	1.800	3.95%	7631-86-9
		Chromium Oxide (Cr ₂ O ₃)	0.990	2.17%	1308-38-9
	+ Metallization	Tungsten (W)	2.600	5.70%	7440-33-7
		Molybdenum (Mo)	0.140	0.31%	7439-98-7
	+ Nickel Plating	Nickel (Ni)	0.590	1.29%	7440-02-0
		Cobalt (Co)	0.200	0.44%	7440-48-4
	+ Gold Plating	Gold (Au)	0.320	0.70%	7440-57-5
	+ Seal ring	Iron (Fe)	2.370	5.20%	7439-89-6
		Nickel (Ni)	1.270	2.79%	7440-02-0
		Cobalt (Co)	0.750	1.65%	7440-48-4
	+ silver solder	Silver (Ag)	0.760	1.67%	7440-22-4
		Copper (Cu)	0.130	0.29%	7440-50-8
IC	IC	Aluminum (Al)	0.0300	0.066%	7429-90-5
		Silicon (Si)	0.4610	1.011%	7440-21-3
	Gold	Gold (Au)	0.0900	0.197%	7440-57-5
	Adhesive	Silver (Ag)	0.1700	0.373%	7440-22-4
		Phenolic Resin	0.0150	0.033%	
Epoxy Resin		0.0150	0.033%		
Crystal	Crystal	Silicon Dioxide (SiO ₂)	0.920	2.02%	14808-60-7
	Electrode	Silver (Ag)	0.0164	0.0360%	7440-22-4
		Chromium (Cr)	0.0003	0.0005%	7440-47-3
	Adhesive	Silver (Ag)	0.0300	0.065816%	7440-22-4
		Silicon (Si)	0.0140	0.030714%	7440-21-3
TOTAL			45.582	100.00%	