

Material Data Declaration Sheet

ECS INC. INTERNATIONAL

ECS Model Number	ECX-1637TC (-37TC Package Type)
Product Description	SMD Thermistor Crystal
Product Revision	
Product Total Weight	0.0073942g/pcs



Contact Information	Company	ECS INC. INTERNATIONAL
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Homogenous Component/Subcomponent	Homogenous Component/Subcomponent Weight (g)	Substance	CAS number	Substance Weight (g)	PPM Level (If Available) (Substance Weight/Total Homogenous Component or	Purpose/Location
Base	0.0060000	Al ₂ O ₃	1344-28-1	0.0032580	543000	Ceramic
		Mn ₂ O ₃	1317-34-6	0.0001448	24133	Ceramic
		SiO ₂	14808-60-7	0.0001448	24133	Ceramic
		MoO ₃	1313-27-5	0.0000362	6033	Ceramic
		MgO	1309-48-4	0.0000362	6033	Ceramic
		Mo	7439-98-7	0.0007300	121667	Electric Conductor
		Ag	7440-22-4	0.0002130	35500	Brazing Material
		Cu	7440-50-8	0.0000870	14500	Brazing Material
		Fe	7439-89-6	0.0005565	92750	Kovar Ring
		Ni	7440-02-0	0.0003045	50750	Kovar Ring
		Co	7440-48-4	0.0001890	31500	Kovar Ring
		Ni	7440-02-0	0.0001000	16667	Ni plating
		Au	7440-57-5	0.0002000	33333	Au plating
		Lid	0.0011800	Ni	7440-02-0	0.0003204
Co	7440-48-4			0.0001868	158305	Kovar
Fe	7439-89-6			0.0005872	497627	Kovar
C	7440-44-0			0.0000001	85	Kovar
Si	7440-21-3			0.0000008	678	Kovar
Mn	7439-96-5			0.0000047	3983	Kovar
Ni	7440-02-0			0.0000800	67797	Ni plating
Crystal Blank	0.0000200			SiO ₂	14808-60-7	0.0000200
Silver	0.0000200	Ag	7440-22-4	0.0000200	1000000	Electrode
Solder Paste	0.0000301	Sn	7440-31-5	0.0000290	963455	Solder
		Ag	7440-22-4	0.0000009	29900	Solder
		Cu	7440-50-8	0.0000002	6645	Solder
Conductive Epoxy	0.0000200	Ag	7440-22-4	0.0000160	800000	Epoxy
		Dodecane	112-40-3	0.0000030	150000	Epoxy
		Aromatic Hydrocarbons	63231-51-6	0.0000010	50000	Epoxy
Thermistor	0.0001241	Mn ₃ O ₄	1317-35-7	0.0000752	605963	Thermistor
		NiO	1313-99-1	0.0000227	182917	Thermistor
		Al ₂ O ₃	1344-28-1	0.0000052	41902	Thermistor
		Ni	7440-02-0	0.0000019	15310	Thermistor
		Sn	7440-31-5	0.0000048	38678	Thermistor
		Pd	7440-05-3	0.0000046	37067	Thermistor
		Ag	7440-22-4	0.0000092	74134	Thermistor
		SiO ₂	7631-86-9	0.0000005	4029	Thermistor