

Material Data Declaration Sheet

ECS INC. INTERNATIONAL



ECS Model Number	ECX-16R (-16R Package Type)				
Product Description	Low ESR SMD Crystal				
Product Revision					
Product Total Weight	2.76mg/pcs				
Contact Information	Company	ECS INC. INTERNATIONAL			
	Contact Name	AJ Anderson			
	Address	15351 W. 109th Street			
		Lenexa, KS 66219			
Phone Number	913-782-7787				
Homogenous Component/Subcomponent	Homogenous Component/Sub component Weight (mg)	Substance	CAS number	Substance Weight (mg)	PPM Level (If Available) (Substance Weight/Total Homogenous Component or Subcomponent Weight*1000000)
Base	1.9000	Alumina-Al ₂ O ₃	1344-28-1	0.905999	476842
		Manganese oxide-Mn ₂ O ₃	1317-34-6	0.033000	17368
		Silicon oxide-SiO ₂	7631-86-9	0.032000	16842
		Molybdenum oxide-MoO ₃	1313-27-5	0.005000	2632
		Magnesium oxide-MgO	1309-48-4	0.003000	1579
		Molybdenum-Mo	7439-98-7	0.300000	157895
		Iron-Fe	7439-89-6	0.199000	104737
		Nickel-Ni	7440-02-0	0.178000	93684
		Cobalt-Co	7440-48-4	0.081000	42632
		Silver-Ag	7440-22-4	0.117000	61579
		Copper-Cu	7440-50-8	0.021000	11053
		Gold-Au	7440-57-5	0.025000	13158
		Thallium-Tl	7440-28-0	0.000001	1
LID	0.7438	Iron-Fe	7439-89-6	0.358200	481581
		Cobalt-Co	7440-48-4	0.114100	153401
		Nickel-Ni	7440-02-0	0.267700	359909
		Manganese-Mn	7439-96-5	0.002900	3899
		Silicon-Si	7440-21-3	0.000500	672
		Chromium-Cr	7440-47-3	0.000300	403
		Carbon-C	7440-44-0	0.000100	134
Conductive Adhesive	0.0404	Silver-Ag	7440-22-4	0.030300	750000
		Silicon resin	14808-60-7	0.003232	80000
		Silsesquioxanes, Me	68554-70-1	0.003232	80000
		n-Dodecane	112-40-3	0.003232	80000
		Alkoxysilane	3388-04-3	0.000404	10000
Crystal Element	0.0758	Silica SiO ₂	14808-60-7	0.072700	959103
		Chromium-Cr	7440-47-3	0.000600	7916
		Gold-Au	7440-57-5	0.002500	32982