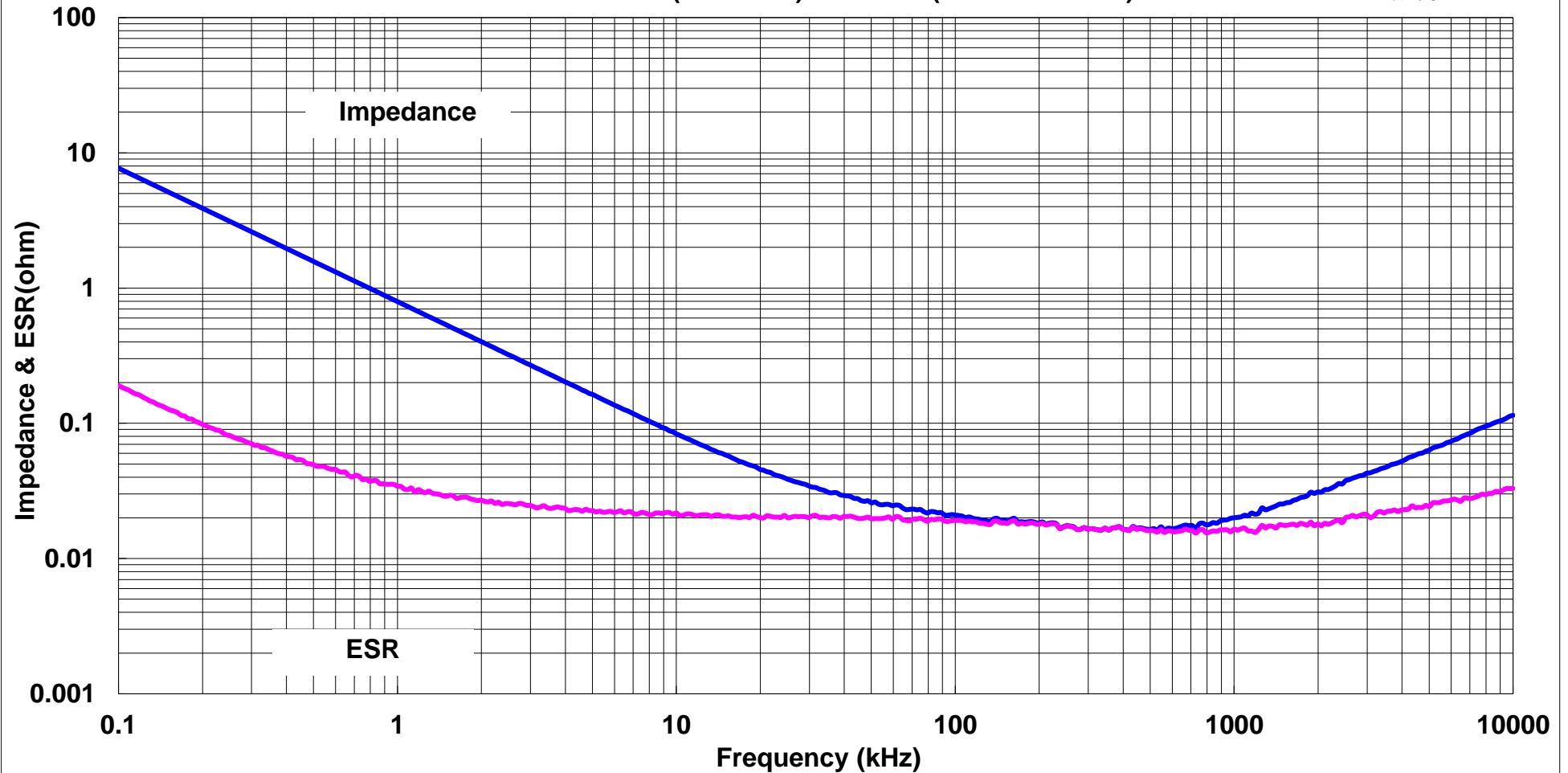


Frequency characteristics of Impedance & ESR
Model : 4THE220M(4V-220uF):D2E SIZE(7.3x4.3x1.8mm)

at 20℃



Frequency(kHz)	0.1	0.3	0.6	1	3	6	10	30	60	100	300	500	600	1000	3000	6000	10000
Impedance (ohm)	7.6914	2.6197	1.3255	0.7952	0.2707	0.1372	0.0836	0.0344	0.0246	0.0210	0.0166	0.0165	0.0166	0.0200	0.0427	0.0731	0.1146
ESR (ohm)	0.1900	0.0710	0.0457	0.0343	0.0247	0.0219	0.0217	0.0201	0.0195	0.0191	0.0165	0.0161	0.0159	0.0165	0.0211	0.0269	0.0329