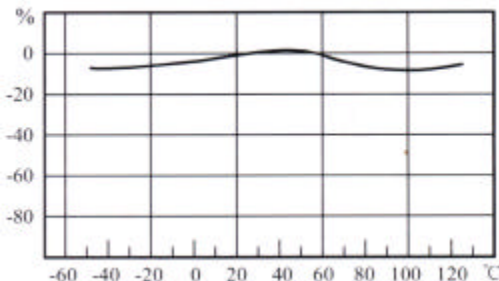


**X7R** SERIES



■ **Specification**

Operating Temperature Range	-55 °C to +125 °C (X5R:-55 °C to +85 °C)
Temperature Coefficient	±15% ΔC max.
Dissipation Factor (tanδ), @25°C	0.025(2.5%) max.
Insulation Resistance (IR), @25 °C	>10GΩ or >100MΩ • μF
*whichever is smaller @125 °C	>1GΩ or >10MΩ • μF
Dielectric Withstanding Voltage	6.3 to 200V, 2.5 x VDCW
	201 to 500V, 1.5 x VDCW
	>500V, 1.2 x VDCW
Aging Rate	~2.0% per decade hour
Test Parameters, @25 °C	1KHz±10%, 1.0±0.2Vrms, 0 Volt. Bias



■ **Capacitance**

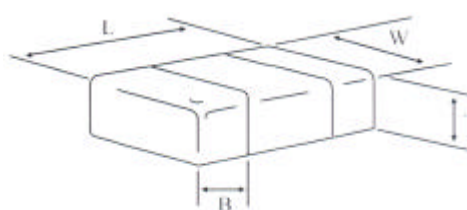
Size Voltage	0402	0603	0805	1206	1210	1808	1812	2220	2225	3640
16V(1C)	562-473	-	-	105-335	335-475	105-475	105-106	106-226	106-226	-
25V(1E)	332-103	-	-	474-105	155-225	225-335	225-475	475-156	475-156	-
50V(1H)	221-472	-	-	224-334	474-105	474-105	474-155	155-475	155-475	-
100V(2A)	221-222	-	-	104-224	154-334	224-334	224-684	474-155	105-155	-
200V(2D)	121-152	221-682	221-333	221-104	683-224	104-224	104-474	334-105	474-105	-
250V(2E)	121-152	221-562	221-273	221-104	333-224	104-224	104-474	334-105	474-105	-
500V(2H)			221-103	221-333	221-104	222-104	472-274	103-564	223-824	104-105
1KV(3A)			221-222	221-682	221-223	102-333	222-563	472-124	103-224	473-394
2KV(3D)				221-102	221-222	221-392	221-822	102-153	222-333	103-563
3KV(3F)						221-102	221-222	681-472	102-103	102-223
4KV(3G)						221-561	221-102	681-222	102-682	102-103

● **X5R Dielectric**

6.3V(0J)	473-104	334-105	155-475	685-106	685-226	685-106	106-476	336-107	336-107	-
10V(1A)	333-104	154-105	684-335	225-475	685-106	685-106	106-336	336-476	336-476	-

■ **Dimension**

Unit:mm



	0402	0603	0805	1206	1210	1808	1812	2220	2225	3640
L	1.0±0.05	1.6±0.1	2.0±0.2	3.2±0.2	3.2±0.4	4.5±0.5	4.5±0.5	5.6±0.5	5.6±0.5	9.2±0.5
W	0.5±0.05	0.8±0.1	1.25±0.2	1.6±0.2	2.5±0.3	2.0±0.3	3.2±0.4	5.0±0.5	6.3±0.5	10.16±0.5
T max.	0.60	0.90	1.45	1.60	1.90	2.10	2.50	2.50	2.50	2.00
B min.	0.15	0.20	0.20	0.20	0.25	0.25	0.25	0.25	0.25	0.25

■ **How To Order**

