

High Q Multilayer Ceramic Capacitors - MQ Series

◆ Features:

1. Low equivalent series resistance
2. Equivalent series inductance
3. High self-resonant frequency
4. High Q value, low noise
5. High-density ceramic structure
6. Ultra-high stability



◆ Specifications:

Table 4 Temperature characteristics (coefficients)			Table 5 Rated voltage					
Temperature characteristic (coefficient)	The capacity is allowed to change	Temperature range	1H	50V	2H	500V	3E	2500V
M7G	100±30ppm/°C	-55°C~125°C	2A	100V	2J	600V	3F	3000V
C0G	0±30ppm/°C	< -55°C~125°C	2C	150V	2K	800V	3V	3600V
X7R	±15%	-55°C~125°C	2D	200V	3A	1000V	3H	5000V
			2E	250V	3C	1500V	3L	7200V
			2F	300V	3D	2000V		

◆ The Outlines and External Dimensions of Capacitors

Table 3 Dimension Code (mm)								
Figure	Dimension code	0402	0505	1111	0603	0805	2525	3838
	L	1.00±0.15	1.40±0.64	2.79 ^{+0.89} _{-0.51}	1.60±0.15	2.00 ±0.20	5.84 ^{+0.51} _{-0.25}	9.65 ^{+0.38} _{-0.25}
	W	0.50±0.10	1.40±0.38	2.79±0.51	0.81±0.15	1.25±0.20	6.50±0.25	9.85±0.30
	Tmin	/	0.51	0.76	/	/	/	/
	Tmax	0.55	1.45	2.59	0.90	1.30	4.19	4.32
	B	0.15~0.35	0.25 ^{+0.25} _{-0.13}	0.38 ^{+0.50} _{-0.25}	0.35 ±0.15	0.50±0.25	1.0max	1.2max