

Miniature Disc Ceramic Variable



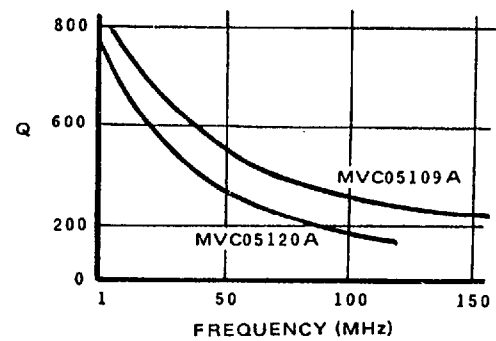
Series MVC

The MVC range of miniature disc ceramic variable capacitors offer the micro-module and hybrid circuit designer a choice of wide capacitance ranges coupled with excellent stability. This range has unique rotor design which utilises special propriety ceramic materials in a monolithic structure.

- Monolithic Multilayer
- Embedded Electrodes
- Wide Capacitance Adjustment
- High Stability

Technical Data

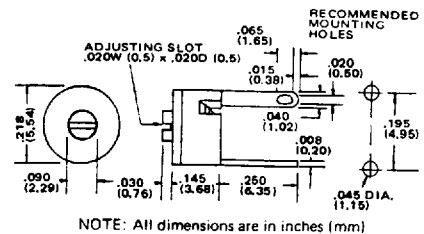
**Rotor:** Specially formulated ceramic.  
**Stator:** High alumina or steatite ceramic.  
**Terminations:** See drawings.  
**Temperature Range:** -55°C to + 85°C for MVC 07  
 -55°C to + 125°C for MVC05  
**Insulation Resistance:** > 10<sup>4</sup> mΩ  
**Dielectric Strength:** 2 x rated d.c. voltage.  
**Capacitance Drift after Temperature Cycling:**  
 Maximum 0.75% or 0.5pF whichever is greater  
**Tuning Torque:** 0.5-5 ounce-inches (3.55 - 35.5m.N.m)  
**Weight:** 0.75g. maximum



Typical 'Q's frequency characteristics

Model Reference (Ordering Type)		Capacitance Range (pF)	Nominal T.C (ppm/°C)	T.C Tolerance (ppm/°C)	WV d.c.	'Q' at 1 MHz
MVC07515	MVC07315	4.0-15.0	N250	±250	500	500
MVC07506	MVC07306	1.6-6.0	N250	±150	50	500
MVC07509	MVC07309	2.0-9.0	NPO	±150	50	500
MVC07512	MVC07312	3.0-12.0	N250	±250	50	500
MVC07520	MVC07320	3.5-20.0	N250	±250	50	500
MVC07530	MVC07330	5.0-30.0	N450	±300	50	500
MVC07540	MVC07340	6.5-40.0	N550	±300	50	500
MVC07550	MVC07350	8.5-50.0	N650	±350	50	300
MVC07560	MVC07360	12.0-60.0	N650	±350	50	250
	MVC05109A	2.5 - 9	NPO	±150	100*	500
	MVC05120A	3.5 - 20	NPO	±150	100*	500
	MVC05125A	5.0 - 25	NPO	±150	100*	500
	MVC05130A	5.0 - 30	NPO	±150	100*	500

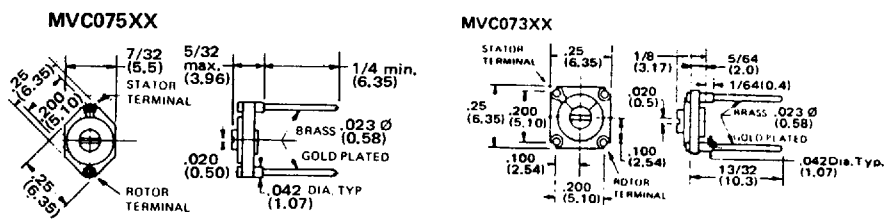
MVC051XX



NOTE: All dimensions are in inches (mm)

Tolerances:- for dimensions 0.124 (3.15) or less ±0.005 (0.12)  
 for dimensions 0.125 (3.17) or greater ±0.015 (0.4)

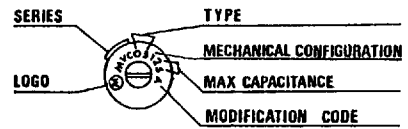
Outline drawing and dimensions



\*Note: 100V d.c. -55°C to +85°C  
 50V d.c. +85°C to +125°C

Tolerances: - fractional ± 1/64" (0.4mm)  
 xxx ±0.005" (0.12mm)  
 xx ±0.010" (0.25mm)

Standard marking and designation system



MVC      07      1      15  
 Series    Type    mechanical configuration    max capacitance