Series MHK

The MHK series offers units with a very high capacitance per unit volume which are ideal for modern high technology electronic assemblies and sub-assemblies.

The leaded styles employ fine silver tapes or wires that are bonded to the element by a unique solderless process which enables them to withstand temperatures far in excess of the melting point of solder.
The glass encapsulated styles confer the benefits of maximum resistance to moisture and surface contaminants whilst the chips offer advantages where minimum inductance is essential for correct circuit operation.

- ❑ Glass encapsulated
- ❑ Leaded types with fine silver ribbon or wire in axial or radial configurations.
- ❑ Designed for direct mounting to P.C.B's and hybrid substrates.
- ❑ High volumetric efficiency.
- ❑ Standard range 0.001µF to1.0 µF
- ❑ -55°C to +125°C operation.

Technical Data

Temperature Range:
-55°C to +125°C without derating.
Capacitance Tolerance:
±20%, ±10%, +80% -20%.
Capacitance Temperature Coefficient:
±15% max. over the range -55°C to +125°C
Dissipation Factor:
0.025 max. at 1KHz and +25°C.
Insulation Resistance:

At +25°C and rated d.c. voltage: $>10^3$ M Ω or 1000 ohm farads.

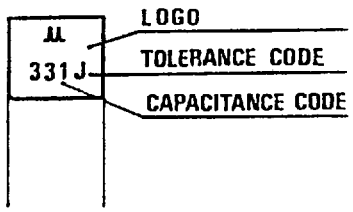
At +125°C and 0.1x rated d.c.voltage: $>10^3$ M Ω or 1000 ohm farads.

† Working voltage: 50Vdc for C≤ 0.47µF
25Vdc for C>0.47µF

Dielectric Test Voltage
2 x WV d.c for 5 seconds at +25°C, 50mA max.

† Also available in 100V d.c. and 200V d.c. with reduced maximum capacitance.
For further details please consult our technical department.

Standard Marking



Axial Ribbon leads

Styles	Case size				Lead size	
	L & W		T			
	inch ±.039	mm. ±1.00	inch ±0.40	mm. ±1.00	inch ±0.03	mm. ±0.07
MHK 11	.140	3.55	.060	1.50	.050 X .010	1.25 X 0.25
MHK 12	.250	6.35	.070	1.75	.050 X .010	1.25 X 0.25
MHK 13	.410	10.40	.080	2.00	.050 X .010	1.25 X 0.25

Radial and Axial wire leads

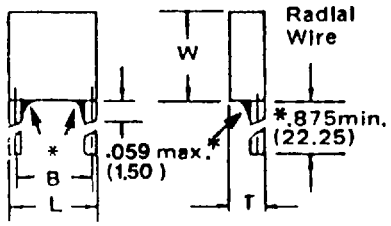
Styles		Case size						Wire Diameter	
		L & W		T		B			
		inch ±.039	mm. ±1.00	inch ±0.40	mm. ±1.00	inch ±0.25	mm. ±0.60	inch ±0.03	mm. ±0.07
MHK 21	MHK 31	.140	3.55	.060	1.50	.125	3.15	.023	0.58
MHK 22	MHK 32	.250	6.35	.070	1.75	.225	5.70	.023	0.58
MHK 23	MHK 33	.410	10.40	.080	2.00	.375	9.50	.023	0.58

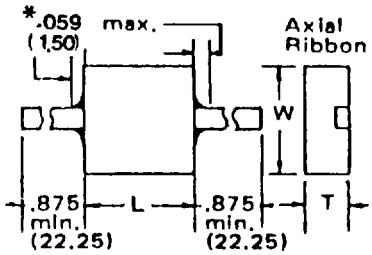
Standard capacitance values

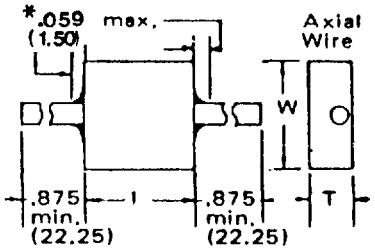
Available Case Styles	Capacitance Code	Capacitance (Mfd)
MHK11 MHK21 MHK31	102 152 222 332 472 682 103 153	.001 .0015 .0022 .0033 .0047 .0068 .010 .015
MHK12 MHK22 MHK32	223 333 473 683 104 154	.022 .033 .047 .068 .10 .15
MHK13 MHK23 MHK33	224 334 474 684 105	.22 .33 .47 .68 1.0

Series MHK

Outline Drawings & Dimensions







* Glass meniscus can extend .059 (1.50) max. from the body of the capacitor, it can be held closer on special order.

Ordering Information

MHK	1	2	33	1	K
Type designation	**Configuration** Axial Ribbon 1 Axial Wire 2 Radial Wire 3	**Case Size** 1 2 3	**Capacitance Code** First two digits of capacitance value in pF.	**No. of Zeros** Following the two digits of capacitance value in pF.	**Capacitance Tolerance** K = ±10% M = ± 20% Z = = 80%, -20%

Example shown is a case style MHK12 330pF ± 10% with a maximum WV d.c. of 50.