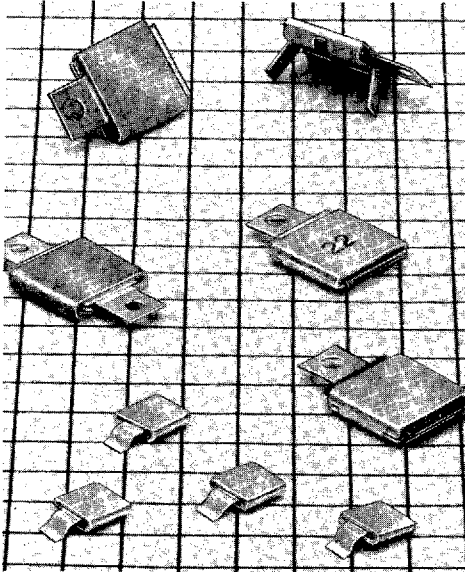


METAL CLAD MICA CAPACITORS

A-05-13



General Specifications

For high temperature...

METAL CLAD CAPACITORS

These capacitors, designed for higher frequency applications where lead inductance is critical, are available for operation at temperatures up to 400°C. Their compact design is ideally suited for PC insertion, today's state of the art technology and special mounting requirements.

ELECTRICAL CHARACTERISTICS

The principal design characteristic of the metal clad mica capacitor can be found first in its "temperature coefficient of capacitance" measured in parts per million per degree celsius. Second, it specifies the deviation of capacitance from the original value after temperature cycling, known as "capacitance drift" and is given as a maximum change. These parameters are measured at 1 KHz, or at 1 MHz, depending upon the nominal capacitance value.

VOLTAGE

Metal clad mica capacitors are available in voltage ratings from 50 to 500 VDC. All metal clad mica capacitors can withstand an application of a DC potential equal to twice the DC working voltage for one to five seconds, without damage, arcing or break down. The surge current is limited to a maximum of 5 milliamperes.

CHARACTERISTICS

- C = T.C. ± 200P/10⁶/°C CAP DRIFT = ± (0.5% ± 0.1pf)
- D = T.C. ± 100P/10⁶/°C CAP DRIFT = ± (0.3% ± 0.1pf)
- E = T.C. - 20 to + 100P/10⁶/°C CAP DRIFT ± (0.1% ± 0.1pf)
- F = T.C. + 70P/10⁶/°C CAP DRIFT ± (0.05% ± 0.1pf)

TOLERANCE

The tolerance designates the tolerance in percent of the nominal value at 25°C.

CAPACITANCE 10PF - 1000PF

The capacitance value represents the nominal capacitance at 25°C in pf. Again the capacitance is measured at 1 MHz, for values of 1000 pf or less, and a 1KHz, for values greater than 1000 pf.

TEMPERATURE RANGE

This is the guaranteed range over which the metal clad mica capacitor may successfully be operated.

VOLTAGE

- A = 100 D = 500
- C = 300 Y = 50

CAPACITANCE

The nominal capacitance value is expressed in pf and is normally identified by a three digit number. The first two digits represent the significant figures; the third digit represents the decimal multiplier. In the illustrated nomenclature, below, the capacitance value is 200 pf.

In these cases where three significant figures are needed, the capacitance is designated by a four digit number where the final digit again specifies the decimal multiplier.

TOLERANCE

- A = ± 1pf G = ± 2%
- D = ± 0.5pf H = ± 3%
- E = ± 1/2% J = ± 5%
- F = ± 1% K = ± 10%
- M = ± 20%

TEMPERATURE

- O = -55 to + 125°C
- P = -55 to + 150°C

HOW TO ORDER

MCJ	101	E	D	201	J	O
Style	Terminal Configuration	Characteristic	Voltage	Capacitance	Tolerance	Temperature

Values & Case Size

TYPE	500 WVDC	300 WVDC	100 WVDC
MCJ	5 — 490pF	250 — 750pF	500 — 1000pF
MWM	—	5 — 120pF	121 — 200pF

Avail up to 2500V - call for information

Configurations

