Performance Specifications NP0

参考資料

Capacitance Test at 25°C

Measured at 1 VRMS max. at 1 MHz (1 KHz for more than 1000 pF)

Capacitance Tolerances

C = + - 0.25pF D = + - 0.50pF F = + - 1%
G = + - 2% J = +- 5% K = + - 10%

Operating Temperature Range

-55°C to + 125°C

Temperature Coefficient

△C = 0 +- 30 ppm/°C

Voltage Ratings

50 & 100 Vdc

Dissipation Factor / Q Value

DF = 0.1% max. or Q : >= 400 + 20C Less then 30 pF
Q : >= 1000 30pF and over

Insulation Resistance

100G or 1000ohmF minimum, whichever is less. The apply rated voltage for max.of 2 min. with 50 mA limiting current at 25° C

Dielectric Strength

250% of rated Vdc for 5s with charging current less than 50 mA

Solderablity

75% min. covered with smooth and bright solder coating under 230 + - 5°C solder bath for 4 + - 1s dipping time

Resistance to Leaching

20% of the metallization of the head face may be missing under 260 + - 5°C solder bath for 30 + - 1.0s dipping time.

Aging Rate

0% per decade hour

Load Life

200% rated voltage at +125°C for 1000hours,
Measurement shall be taken after 24 hrs stabilization.

△C : < + -3 % or + - 0.3pF whichever is less

Q : >= 350 for more than 30 pF

>= 275 + 2.5C for 30 pF> C >10pF

>= 200 + 10C for less than 10 pF

IR : >= 1Gohm or 50 ohmF whichever is less

Humidity Test

500 hours at 40 + - 2°C under 90 to 95% humidity.
Measurement shall be taken after 24 hrs stabilization.

△C : < + - 5% or + - 0.5pF whichever is less

Q : >= 350 for more than 30 pF

>= 275 + 2.5C for 30 pF> C >10pF

>= 200 +10C for less than 10 pF

IR : >= 1Gohm or 50 ohmF whichever is less

Temperature Coefficient