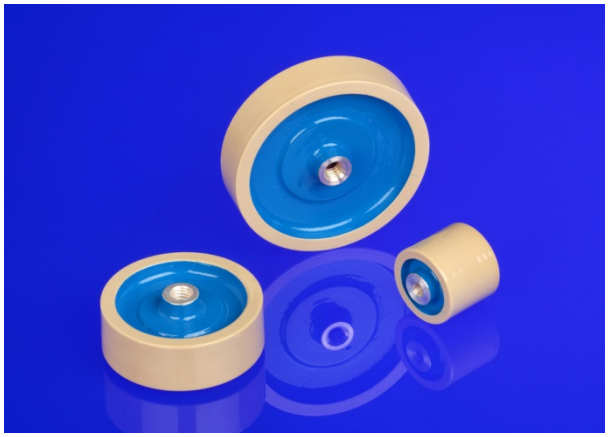
# RF Decoupling Class 2 Capacitors 3.5 kV Discs

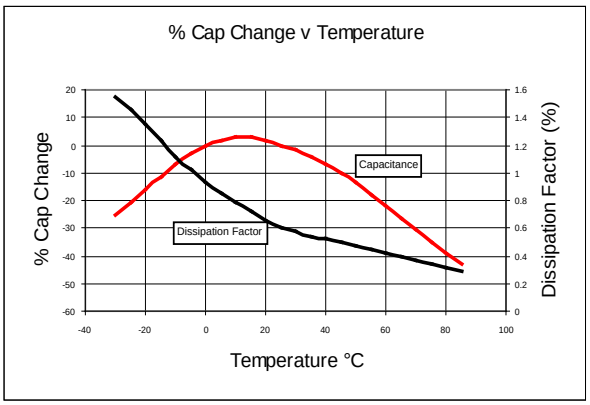
**Morgan Advanced Materials** is a world leader in the design and manufacture of complex electronic ceramic components and assemblies used in a wide range of applications and cutting edge technologies. Morgan's Ruabon Division specialises in the development and production of dielectric and ferroelectric materials and components. This disc range is designed for high frequency decoupling applications and as such complements Morgan's extensive range of CLASS 1 RF Power Capacitors. It is fabricated from a Y5U CLASS 2 ceramic dielectric material.

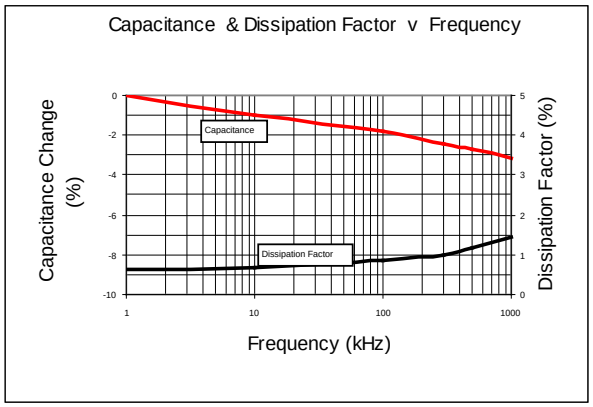


## Application:

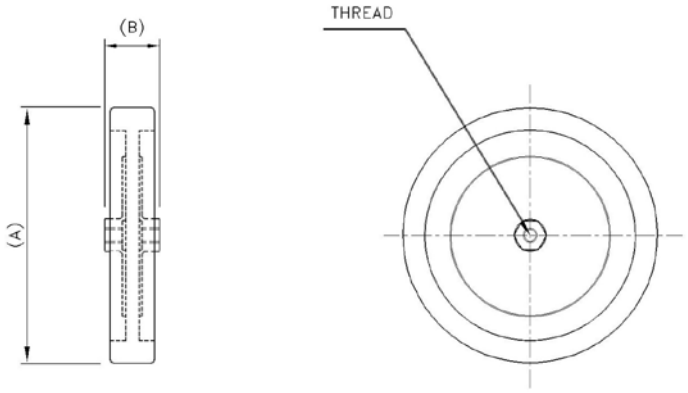
- HF Decoupling Circuits

| Material / Electrical Specification | |
|---|---|
| **Capacitance Range** | 1000-15000pF (see table) |
| **Capacitance Tolerance** | +40% -20% |
| **Capacitance Temperature Characteristic** | Y5U (EIA) See curve<br>(+22% -56% from -30°C to +85°C) |
| **Rated Voltage (dc+acpk)** | 3.5 kVpk (see table) |
| **Test Voltage (50Hz)** | 5kVrms/60sec |
| **RF kVAr load rating** | See table |
| **RF current rating** | See table |
| **Operating Temperature Range** | -25°C +85°C |
| **Maximum Relative Humidity** | 75% |



## Outline Drawing Class 2 Capacitors 3.5 kV Discs




Vertical Mounting
Recommended

## Electrical Characteristics - CLASS 2 Ceramic Discs

| Type No | Cap Value pF | Temp Charc | Rated (ACpk + DC) kVpk | Rated AC kVpk | Test 50 Hz kVrms | Max POWER Rating (kVAr) | Max Current Rating (A rms) | A nom (mm) | B nom (mm) | Thread Size (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| **855** | 1000 | Y5U | 3.5 | 3.5 | 5 | 0.25 | 5 | 23 | 17-24 | M4 |
| **855** | 1500 | Y5U | 3.5 | 3.5 | 5 | 0.25 | 5 | 23 | 17-24 | M4 |
| **856** | 2200 | Y5U | 3.5 | 3.5 | 5 | 0.5 | 9 | 33 | 17-24 | M4 |
| **856** | 3300 | Y5U | 3.5 | 3.5 | 5 | 0.5 | 9 | 33 | 17-24 | M4 |
| **857** | 4700 | Y5U | 3.5 | 3.5 | 5 | 1 | 15 | 45 | 17-24 | M6 |
| **857** | 6800 | Y5U | 3.5 | 3.5 | 5 | 1 | 15 | 45 | 17-24 | M6 |
| **858** | 10000 | Y5U | 3.5 | 3.5 | 5 | 1 | 15 | 57 | 17-24 | M6 |
| **858** | 15000 | Y5U | 3.5 | 3.5 | 5 | 1 | 15 | 57 | 17-24 | M6 |

The above RF load conditions are based on the maximum body temperature rise of 45°C from an ambient temperature of 30°C.

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Please view our website :
**www.morganelectroceramics.com**

**Links:**

* Power Rating & Operating Conditions

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