

Class 2, Temp. Char Y5F, Low loss(0.3%),Rated voltage 1 to 3 kVDC

◆Features

- Wide operating temperature range: -25 to +125 °C.
- Improved in "Voltage vs .Temperature Rise" through Low loss ceramic dielectric materials applied.
- Temperature stable type,Char.Y5F.
- Flame-retardant insulating coating applied .

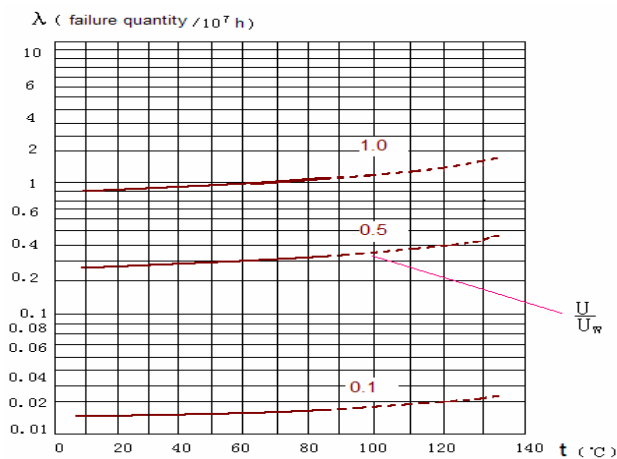
◆Recommended Applications

- Buffer circuit of switching power supply.
- Horizontal resonance of TV and CRT display.
- Inverter lighting apparatus.
- High voltage and pulse circuit.

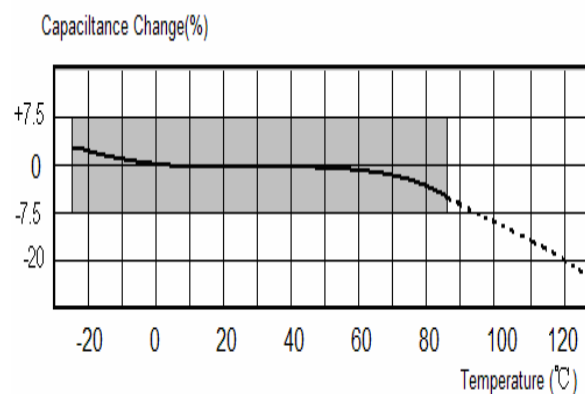
◆Specification of Part Numbers

- Operating temperature range: -25to125°C (Including maximum temperature rise of +20°C) .
- Dissipation factor ($\tan \delta$: 0.3% max at 1kHz, 1 Vrms, 25°C.
- Rated voltage: 1kVDC to 3KVDC.
- Insulation resistance: 10,000 Ω M min at 500VDC and 1 minute electrification .
- Dielectric withstanding voltage: 200% of the rated voltage for 5 seconds.
- Capacitance : Within the specified tolerance, when measured at 1 kHz, 1 Vrms, 25°C.
- Temperature coefficient : $\pm 7.5\%$ (-25~+85°C); -7.5~-20%(+85~+125°C).

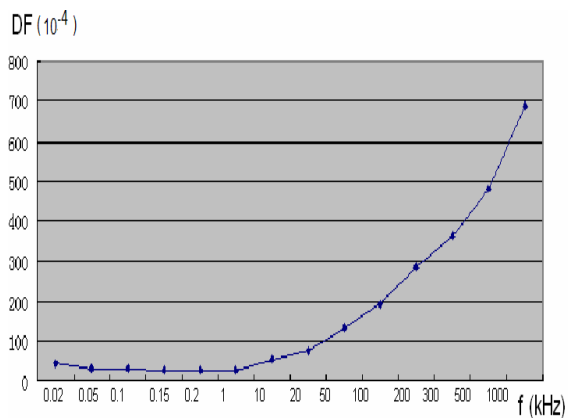
◆Failure Rate and Temperature Relations



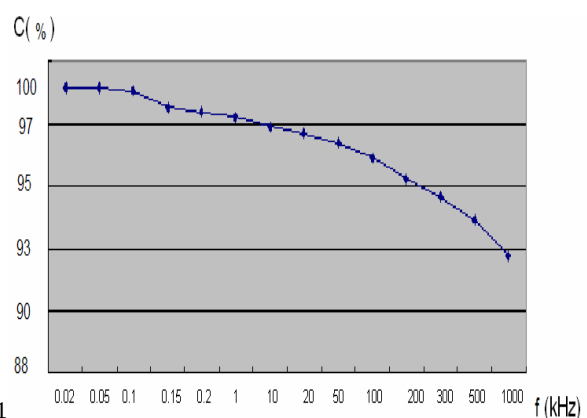
◆Typical Temperature Characteristics



◆DF vs f



◆C vs f



◆ Ratings and Characteristics of Y5F

Rated Voltage	Nom. Cap.(pF)	Cap. Tol. (%)	Dim(mm)			
			D Max	T Max	F	d
1kV	100	±10%	6.0	3.5	5/7.5	0.60
	120		6.0	3.5	5/7.5	0.60
	150		6.0	3.5	5/7.5	0.60
	220		6.0	3.5	5/7.5	0.60
	330		6.0	3.5	5/7.5	0.60
	390		6.0	3.5	5/7.5	0.60
	470		7.0	3.5	5/7.5	0.60
	680		7.0	3.5	5/7.5	0.60
	820		8.0	3.5	5/7.5	0.60
	1000		8.0	3.5	5/7.5	0.60
	1200		8.0	3.5	5/7.5	0.60
	1500		10.0	3.5	5/7.5	0.60
	1800		10.0	3.5	5/7.5	0.60
	2200		10.0	3.5	5/7.5	0.60
	2700		12.0	3.5	5/7.5	0.60
	3300		12.0	3.5	5/7.5	0.60
	3900		13.0	3.5	5/7.5	0.60
	4700		13.0	3.5	5/7.5	0.60
2kV	100	±10%	6.0	4.0	5/7.5	0.60
	120		6.0	4.0	5/7.5	0.60
	150		6.0	4.0	5/7.5	0.60
	220		6.0	4.0	5/7.5	0.60
	330		6.0	4.0	5/7.5	0.60
	390		6.0	4.0	5/7.5	0.60
	470		7.0	4.0	5/7.5	0.60
	680		7.0	4.0	5/7.5	0.60
	820		8.0	4.0	5/7.5	0.60
	1000		9.0	4.0	5/7.5	0.60
	1500		12.0	4.0	5/7.5	0.60
	1800		10.0	4.0	5/7.5	0.60
	2200		11.0	4.0	5/7.5	0.60
	2700		12.0	4.0	5/7.5	0.60
	3300		12.0	4.0	5/7.5	0.60
	3900		13.0	4.0	7.5/10	0.60
	4700		13.0	4.0	7.5/10	0.60

Rated Voltage	Nom. Cap.(pF)	Cap. Tol. (%)	Dim(mm)			
			D Max	T Max	F	d
3kV	100	±10%	6.0	4.5	7.5/10	0.60
	120		6.0	4.5	7.5/10	0.60
	150		6.0	4.5	7.5/10	0.60
	220		6.0	4.5	7.5/10	0.60
	330		7.0	4.5	7.5/10	0.60
	390		7.0	4.5	7.5/10	0.60
	470		8.0	4.5	7.5/10	0.60
	680		8.0	4.5	7.5/10	0.60
	820		9.0	4.5	7.5/10	0.60
	1000		10.0	4.5	7.5/10	0.60
	1200		10.0	4.5	7.5/10	0.60
	1500		12.0	4.5	7.5/10	0.60
	1800		12.0	4.5	7.5/10	0.60
	2200		13.0	4.5	7.5/10	0.60
	2700		13.0	4.5	7.5/10	0.60
	3300		14.0	4.5	7.5/10	0.70
	3900		15.0	4.5	7.5/10	0.70
	4700		16.0	4.5	7.5/10	0.70