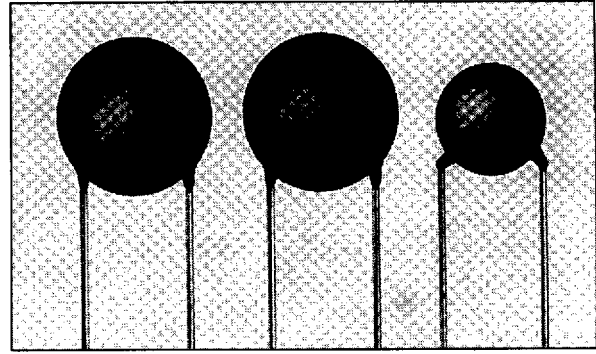


## GENERAL PURPOSE, HI-K (DIELECTRIC CONSTANT) TYPE

### Class II/III

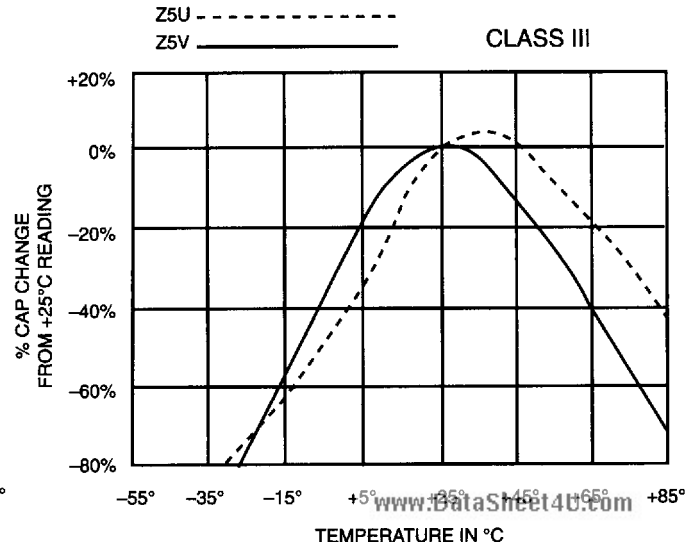
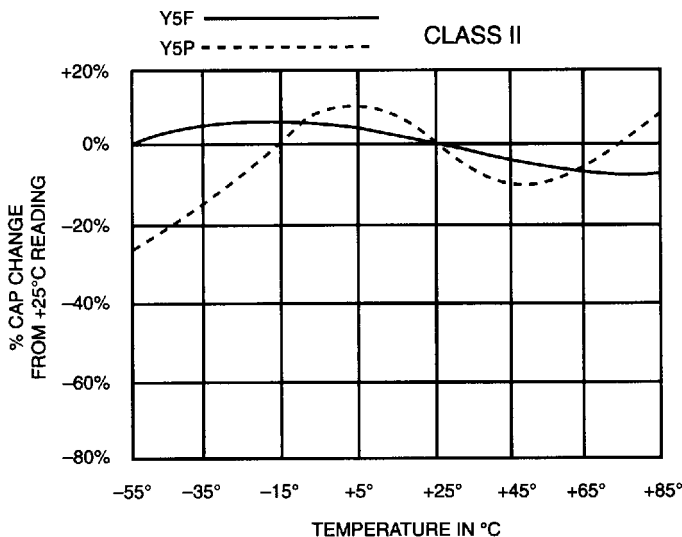
- WIDE SELECTION OF TEMPERATURE CHARACTERISTICS
- HIGH INSULATION RESISTANCE
- EXCELLENT HIGH FREQUENCY CHARACTERISTICS
- ECONOMICALLY PRICED
- AVAILABLE WITH FORMED LEADS AND ON TAPE FOR AUTOMATIC INSERTION

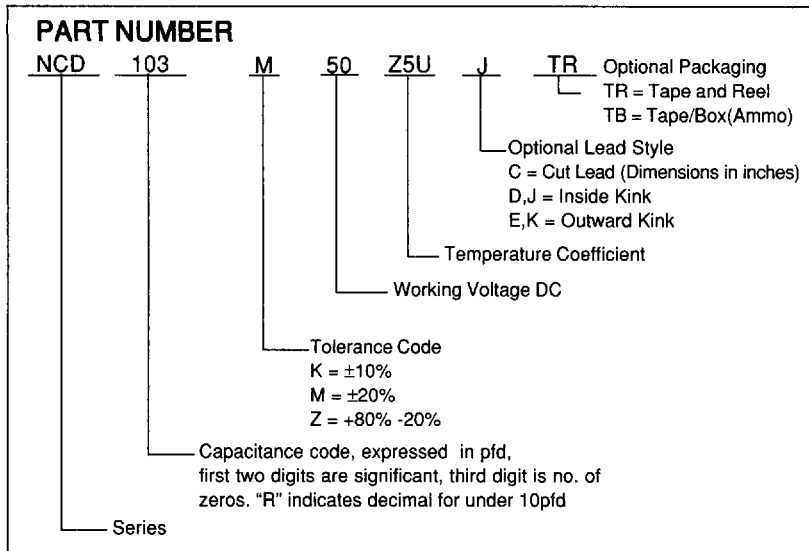


## SPECIFICATIONS

Temperature Characteristics	Y5F	Y5P	Z5U	Z5V	
Operating Temperature Range	-30° ~ +85°C	-30° ~ +85°C	+10° ~ +85°C	+10° ~ +85°C	
Capacitance Range	100PFD~.01MFD	100PFD~.022MFD	.001MFD~.1MFD	.001MFD~.1MFD	
Standard Tolerance	K=±10%	K=±10%	M=±20%	Z=±20%~+80%	
Capacitance Change Over Temperature Range	±7.5%	±10%	+22% -56%	+22% -82%	
Dissipation Factor	2.5%*	2.5%*	5%	5%	
Insulation Resistance	Minimum 10,000 Megohms				
Working Voltage Range	50 ~ 3KVdc				
Dielectric Withstanding Voltage	2.5 Times Rated Voltage for Not Less Than 1 Second				
Load Life	Cap. Change	±10%	±10%	±20%	±30%
	D.F. (MAX.)	4%	4%	7.5%	7.5%
	I.R. (Min)	1000 Megohms			
Test Conditions	1Khz; 1.0V ±0.2Vrms		1Khz; 0.5V ±0.1Vrms		

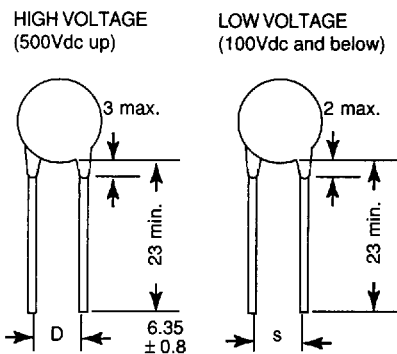
\* Special low dissipation factor (1.0% max.) Y5F and Y5P dielectrics are also available. Contact NIC for availability.





## DIMENSIONS IN mm

### STANDARD



### LEAD SPACING (S):

BODY DIAMETERS: 5MM ~ 11MM  
STANDARD BULK: 6.35MM ± 0.8MM  
OPTIONAL BULK: 5.0MM ± 0.8MM

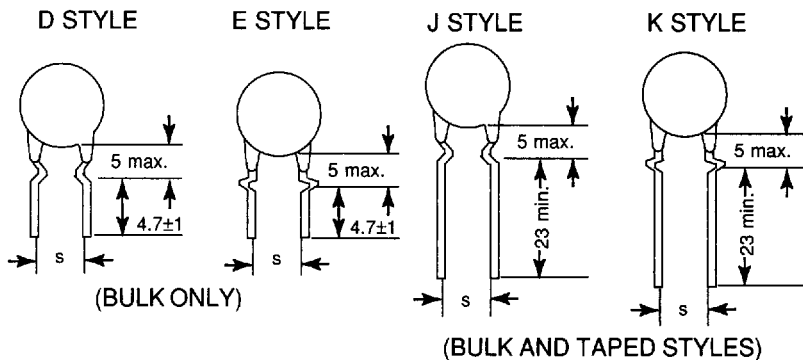
BODY DIAMETERS: 12MM AND UP  
STANDARD BULK: 6.35MM ± 0.8MM  
OPTIONAL #1 BULK: 7.5MM ± 0.8MM  
OPTIONAL #2 BULK: 10 ± 0.8MM

BODY DIAMETERS: ALL  
STANDARD TAPED PRODUCT: 5.0MM  
OPTIONAL TAPED PRODUCT: 2.5MM (CONSULT NIC)

**LEAD DIAMETER**  
0.6MM IS STANDARD

**BODY THICKNESS**  
2 ~ 4MM DEPENDENT ON CV

### OPTIONAL LEAD STYLES



### STANDARD PRODUCTS AND MAXIMUM DIAMETER (mm) BY T.C. AND VOLTAGE

Cap. PFD/MFD	Y5F/Y5P*			Z5U			Z5V		
	50VDC/ 100VDC	500VDC	1KVDC	50VDC/ 100VDC	500VDC	1KVDC	50VDC/ 100VDC	500VDC	1KVDC
100 ~ 470PFD	6	6	6						
560	6	6	6						
680	6	6	7						
750	6	6	7						
820	6	6	7						
.001MFD	6	7	7	6	6	6		6	6
.0015	6	8	8	6	6	7		6	6
.0022	6	9	10	6	7	7	6	6	6
.0027	7	10	12	6	7	8	6	6	7
.0033	7	10	14	6	7	9	6	7	8
.0047	8	12	14	6	8	10	6	8	8
.0056	9	14	16	6	9	10	6	8	9
.0068	9	14	16	7	9	12	6	8	10
.0082	10	16	18	7	10	12	6	9	10
.01	12	16	20	7	10	12	6	9	10
.015	14	21		9	14	16	7	10	12
.022				10	16	18	8	14	16
.033				8	18	22	7	16	18
.047				8	21	24	7	16	21
.068				8/9	24		8	16	
.1				8/9	26		8/9	17	

\*.0047MFD AND ABOVE NOT AVAILABLE IN Y5F, PLEASE USE Y5P.

NIC RESERVES THE RIGHT TO REQUEST MINIMUM QUANTITIES ON CERTAIN VALUES. www.DataSheet4U.com