GENERAL PURPOSE, HI-K (DIELECTRIC CONSTANT Class II/III) TYPE

FEATURES

- WIDE SELECTION OF TEMPERATURE CHARACTERISTICS
- HIGH INSULATION RESISTANCE
- EXCELLENT HIGH FREQUENCY CHARACTERISTICS

*See Part Number System for Details

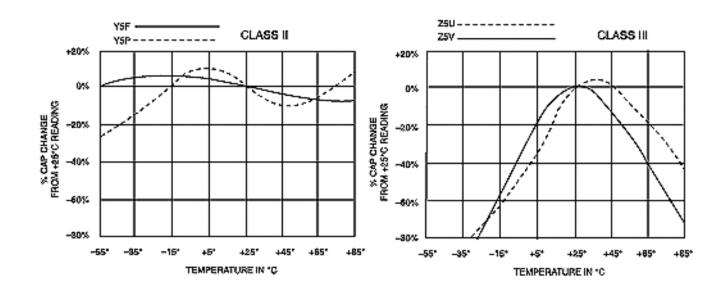


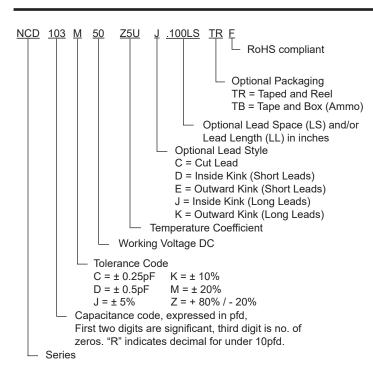
 AVAILABLE WITH FORMED LEADS AND ON TAPE FOR AUTOMATIC INSERTION

SPECIFICATIONS

	erature cteristics	Y5F	Y5P	Z5U	Z5V					
Operating Temperature Range		-30°C ~ +85°C	-30°C ~ +85°C	+10°C ~ +85°C	+10°C ~ +85°C					
Capacita	Capacitance Range		100pF ~ 0.01μF	0.001μF ~ 0.1μF	$0.001 \mu F \sim 0.1 \mu F$					
Standard Tolerance		±10% (K)	±10% (K)	±20% (M)	+80%/-20% (Z)					
Capacitance Change Over Temperature Range		±7.5%	±10%	-55% ~ +22	-82% ~ +22%					
Dissipation Factor		2.5%*	2.5%*	5%	5%					
Insulation	Resistance	Minimum 10,000 Megohms								
Working Vo	oltage Range	50Vdc ~ 1KVdc								
Dielectric Withstanding Voltage (Test Voltage)		2.5 Times Rated Voltage For Not Less Than 1 Second, 50mA Maximum								
Load Life	Cap. Change	±10%	±10%	±20%	±30%					
Test @ 85°C	D.F. (max.)	4%	4%	7.5%	7.5%					
1,000 Hours	I.R. (min.)		1,000 M							
Test Conditions		1KHz, 1.0V ±02Vrms 1KHz, 0.5V ± 0.1Vrms								

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

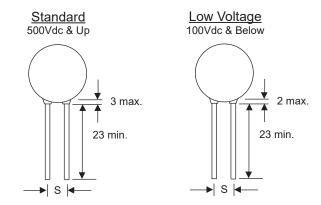




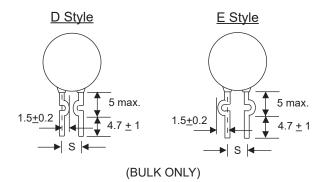
Lead Spacing (mm) - S										
Body	Standard	Standard	Optional Bulk	Optional T&R mm (inches)						
Diameter	Bulk	T&R	mm (inches)							
5 ~ 11	6.35 ± 0.8	5.0 ± 0.8	5.0 ± 0.8 (0.200LS)	2.5 ± 0.8 (0.100LS)						
≥12	6.35 ± 0.8	5.0 ± 0.8	7.5 ± 0.8 (0.295LS)	7.5 ± 0.8 (0.295LS)						
		3.0 ± 0.6	10.0 ± 0.8 (0.395LS)	10.0 ± 0.8 (0.395LS)						

<u>LEAD DIAMETER</u> 0.6MM IS STANDARD

BODY THICKNESS 2 ~ 4MM DEPENDENT ON CV



J Style K Style 5 max. 1.5±0.2 3 min. BULK AND TAPED STYLES)

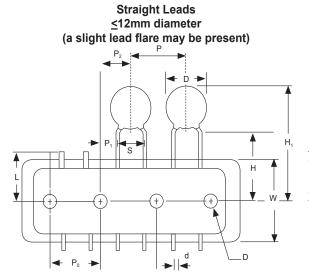


STANDARD PRODUCTS AND MAXIMUM DIAMETER (mm) BY T.C. AND VOLTAGE

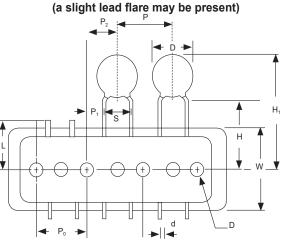
	Y5F/Y5P* Z5U Z5V								
Cap.	Working Voltage (Vdc)								
(pF/μF)	50 100	500	1K	50 100	500	1K	50 100	500	1K
100~470pF	6	6	6	-	-	-	-	-	-
560	6	6	6	-	-	-	-	-	-
680	6	6	7	-	-	-	-	-	-
750	6	6	7	-	-	-	-	-	-
820	6	6	7	-	-	-	-	-	-
0.001μF	6	7	7	6	6	6	5.5	6	6
0.0012	6	7	7/8	6	6	7	5.5	6	6
0.0015	6	8	8	6	8	8	5.5	6	7
0.0018	6	9	8	6	9	8	5.5	6	7
0.0022	6	9	10	6	7	7	6	6	7
0.0027	7	10	12	6	7	8	6	6	7
0.0033	7	10	14	6	7	9	6	7	8
0.0039	8	12	14	6	7	9	6	8	8
0.0047	8	12	14	6	8	10	6	8	8
0.0056	9	14	16	6	9	10	6	8	9
0.0068	9	14	16	7	9	12	6	8	10
0.0082	11	16	18	7	10	12	6	9	10
0.01	12	16	18	7	10	12	6	9	10
0.022	-	-		10	16	18	8.5	14	16
0.033	-	-	•	8	18	22	7	16	18
0.047	-	-	•	-	21	-	7	16	21
0.1	-	-	-	8/9	-	-	8/9	-	-

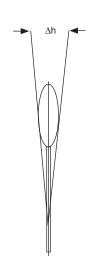
*.022µF AND ABOVE NOT AVAILABLE IN Y5F, PLEASE USE Y5P. NIC RESERVES THE RIGHT TO REQUEST MINIMUM QUANTITIES ON CERTAIN VALUES.

DIMENSIONS (mm)



Straight Leads
>12 ~ 23mm diameter
(a slight lead flare may be present)

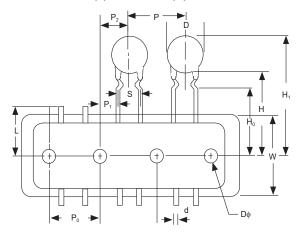


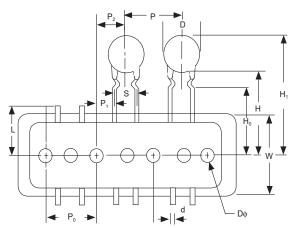


Crimped Leads
≤12mm diameter
Inward (J) & Outward (K) are available

Crimped Leads
>12 ~ 23mm diameter
Inward (J) & Outward (K) are available



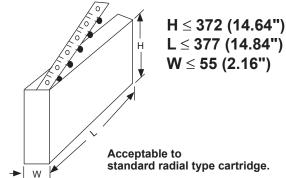




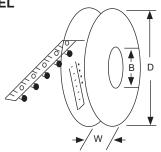
Symbol	D max.	d	Р	P _o	P ₁	P ₂	S	Н	H _o	H ₁	Dφ	W	L	t	Δh
Value	<u>≤</u> 12	0.6	12.7		5.1	6.35	2.5		Applies to Dorts	32.25 max.					0.0
					3.85		5.0								
]	3.18		6.35		Applies to Parts with	max.					
	>12 ~ 23	0.6 or 2 0.8*	25.4	12.7	8.95	12.7	7.5	20.0	Crimped Leads	H max. + D max.	4.0	18.0	11.0 max.	0.6	
			23.4		7.7	12.7	9.5		16.0						
Tolerance -	≤ 12	+0.06	±1.0	±0.2	±0.7	±1.0	+0.8	+1.5 -1.0	±0.5		±0.2	±0.5		±0.3	±2.0
	>12 ~ 23	-0.05	±1.U	±0.2	±1.5 ±1.3	±1.3	3 -0.2								

^{*}Lead diameter dependent on capacitor diameter. Contact NIC for details





REEL



D \leq 354 (13.93") B \geq 21 (.83") but

 \leq 30 (1.18")

 $W \le 55 (2.16")$

Acceptable to standard radial type cartridge with a few extra accessories.

PART NUMBER SUFFIX FOR OPTIONAL TAPE & REEL OR TAPE & BOX PACKAGING

Tape & Reel Straight Lead Options

TRF = Tape & Reel with 5mm lead-space

TR.100LSF = Tape & Reel with 2.0mm lead-space

TR.250LSF = Tape & Reel with 6.35mm lead-space

TR.300LSF = Tape & Reel with 7.5mm lead-space

TR.375LSF = Tape & Reel with 9.5mm lead-space

Tape & Reel Crimped Lead Options (J = Inward Crimp, K = Outward Crimp)

JTRF or KTRF = Tape & Reel with 5mm lead-space

JTR.250LSF or KTR.250LSF = Tape & Reel with 6.35mm lead-space

JTR.300LSF or KTR.300LSF = Tape & Reel with 7.5mm lead-space

JTR.375LSF or KTR.375LSF = Tape & Reel with 9.5mm lead-space

Tape & Box Straight Lead Options

TBF = Tape & Reel with 5mm lead-space

TB.100LSF = Tape & Reel with 2.0mm lead-space

TB.250LSF = Tape & Reel with 6.35mm lead-space

TB.300LSF = Tape & Reel with 7.5mm lead-space

TB.375LSF = Tape & Reel with 9.5mm lead-space

Tape & Box Crimped Lead Options (J = Inward Crimp, K = Outward Crimp)

JTBF or KTBF = Tape & Reel with 5mm lead-space

JTB.250LSF or KTBR.250LSF = Tape & Reel with 6.35mm lead-space

JTB.300LSF or KTB.300LSF = Tape & Reel with 7.5mm lead-space

JTB.375LSF or KTB.375LSF = Tape & Reel with 9.5mm lead-space

Notes:

- 1. The above lead-space options may not be available in all part diameters. Contact NIC for details.
- 2. Inward "J style" and outward "K style" may not be available in all part diameters and voltages. Contact NIC for details.