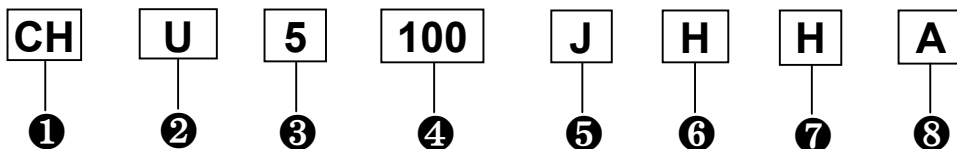


**HOW TO ORDER – PART NUMBER EXPLANATION**

To Order, please specify Pan Overseas Part No. as the following example :



**① Temperature Characteristics Code :**

	CH (NPO)	SL	B (Y5P)	E (Z5U)	F (Z5V)	X (X7R)	RY (Y5R)	FY (Y5V)
T.C.(PPM/ ) or Cap. Change %	0 ± 60PPM	+ 350 - 12000PPM	± 10%	+ 22% -56%	+ 22% - 82%	± 15%	± 15%	+ 22% - 82%

**② Rated Voltage :**

	B	T	U	A	C	M	M2	M3
Voltage	16V	25V	50V	100V	500V	1000V	2000V	3000V

**③ Part Diameter(mm) :**

Code	Diameter	Code	Diameter	Code	Diameter	Code	Diameter
5	5mm	8	8mm	A	11mm	D	14mm
6	6mm	9	9mm	B	12mm	E	15mm
7	7mm	0	10mm	C	13mm	F	16mm

**④ Capacitance Code :**

Code	Capacitance (pF)	Code	Capacitance (pF)
010	1	102	1000
1R5	1.5	222	2200
100	10	472	4700
101	100	103	10000

**⑤ Tolerance Code :**

Code	Tolerance	Code	Tolerance
C	± 0.25pF	K	± 10%
D	± 0.50pF	M	± 20%
J	± 5%	Z	+ 80-20%

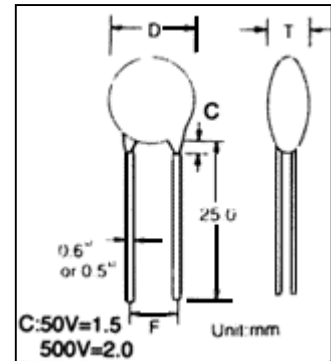
**⑥ Lead Configuration Code-Bulk & Taping Package**

Bulk Lead Code	Taping Lead Code	Configuration and Dimension			
		Kinked / Straight	Lead Space (F)	Lead Length (L)	Remarks
2		Straight	5.0mm	5±1mm	
5		Straight	2.5mm	25 mm Min.	
6	G or L	Straight	5.0mm	25mm Min.	G = Ammo, L = Reel
7		Straight	6.4mm	25mm Min.	
8		Inside Kinked	5.0mm	5±1mm	
9	H or R	Inside Kinked	5.0mm	25 mm Min.	H = Ammo, R = Reel
A		Straight	10.0mm	5±1mm	
B		Inside Kinked	10.0mm	5±1mm	
C		Straight	10.0mm	25 mm Min.	

**⑦ High temperature soldering type.**

**⑧ Epoxy coating material is used on 2KV & 3KV parts only.**

**CLASS II HI-K TYPE**



**FEATURES :**

- Capacitance has non-linear temperature coefficient.
- Large capacitance in small size.
- Wide range of general purposes applications.

**GENERAL SPECIFICATION :**

Capacitance Range	100pF to 47000pF
Capacitance Tolerance	±10%, ±20%, +80% -20%
Operating Temperature Range	-25 ~ 85 (Y5P); 10 ~ 85 (Z5U, Z5V)
Rated Working Voltage Rating	50, 500 VDC
Dissipation Factor (tan δ)	Y5P, Z5U .....tan δ ≤2.5%, Z5V ..... tan δ ≤5.0%
Insulation Resistance (IR) @ 25	10,000 M Minimum or 200 M μF whichever is smaller
Dielectric Strength	2.5 times the rated WVDC
Testing Parameters	1KHz ±20%, 1.0Vrms±0.2Vrms

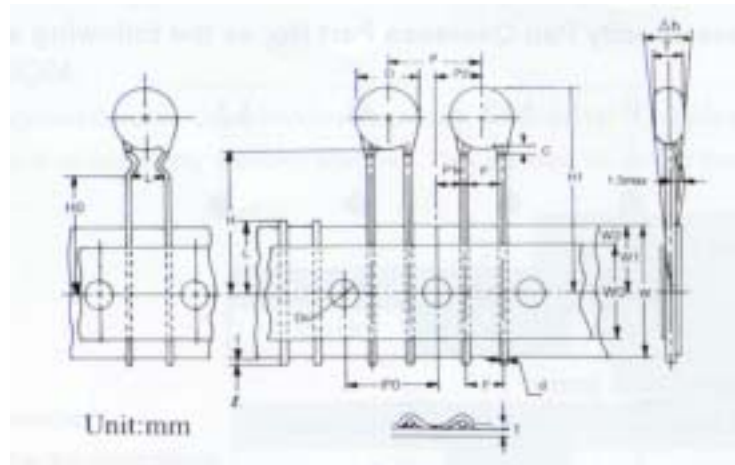
**CAPACITANCE CHART :**

Temp. Char.	Part Diameter.	Rated Voltage	Capacitance			Dim. (mm) Max			Temp. Char.	Part Diameter	Rated Voltage	Capacitance			Dim. (mm) Max		
			Range (pF)	Tol.	D	T	F	Range (pF)				Tol.	D	T	F		
B (Y5P) ±10%	5	U (50V)	100 - 2000	K, M	5.5	3.5	E (Z5U) +22% -56%	5	U (50V)	50V	2200 - 5000	M, Z	5.5	3.5	5.00		
	6		2200 - 2700		6.5			6			5600 - 8200		6.5				
	7		3000 - 3300		7.5			7			10000		7.5				
	8		3900 - 4700		8.5			8			12000 - 15000		8.5				
	10		5600 - 10000		10.5			10			18000 - 22000		10.5				
	5	C (500V)	100 - 820		5.5	4.0		5	C (500V)	500V	5	1500 - 2200	5.5				
	6		1000		6.5			6			2700 - 3300	6.5					
	7		1500 - 2000		7.5			8			3900 - 6800	8.5					
	8		2200 - 3000		8.5			10			8200 - 10000	10.5					
	10		3300 - 5000		10.5												
	12		5600 - 6800		13.0												
	14		8200 - 10000		15.0												

Temp. Char.	Part Diameter.	Rated Voltage	Capacitance		Dim.(mm)Max		
			Range (pF)	Tol.	D	T	F
F (Z5V) +22% -82%	5	U (50V)	4700 - 5000	Z	5.5	3.5	5.00
	6		10000 - 15000		6.5		
	7		18000 - 20000		7.5		
	8		22000		8.5		
	10		30000 - 47000		10.5		
	8	C (500V)	10000	Z	8.5	4.0	5.0

• When Ordering, please use the Pan Overseas part number as indicated on page no. 13.

**TAPING SPECIFICATION AND DIMENSION**



Item	Symbol	Specification		Remarks	
		Value	Tolerance		
Body diameter	D	11.0	Max		
Body thickness	T	3.5	Max		
Lead-wire diameter	d	0.6	+0.06-0.05		
Pitch of component	P	12.7	±1.0		
Feed hole pitch	P <sub>0</sub>	12.7	±0.3	Cumulative pitch error : 1.0 mm/20 pitch	
Feed hole center to lead	P <sub>1</sub>	3.85	±0.7	To be measured at bottom of clinch	
Hole center to component center	P <sub>2</sub>	6.35	±1.3		
Lead-to lead distance	F	5.0	+0.8 -0.2		
Component alignment, F-R.	h	0	±2.0		
Tape width	W	18.0	+1.0 -0.5		
Hold-down tape width	W <sub>0</sub>	11.0	Min		
Hole position	W <sub>1</sub>	9.0	+0.75 -0.5		
Hold-down tape position	W <sub>2</sub>	3.0	Max		
Height of component form tape center	For Straight Lead Type	H	20.0	+1.0 -0.5	
	For Kinked Lead Type	H <sub>0</sub>	16.0	±0.5	
Component height	H <sub>1</sub>	32.25	Max		
Lead-wire protrusion	l	2.0	Max		
Feed hole diameter	D <sub>0</sub>	4.0	±0.3		
Total tape thickness	t	0.7	±0.2		
Length of snapped lead	L	11.0	Max	Ground paper : 0.5±0.1 mm	
Coating rundown on leads	C	1.5	Max		

These radial taped ceramic disc capacitors are designed especially for automatic insertion, and is only available for those parts have diameter of 11.0mm or smaller.

