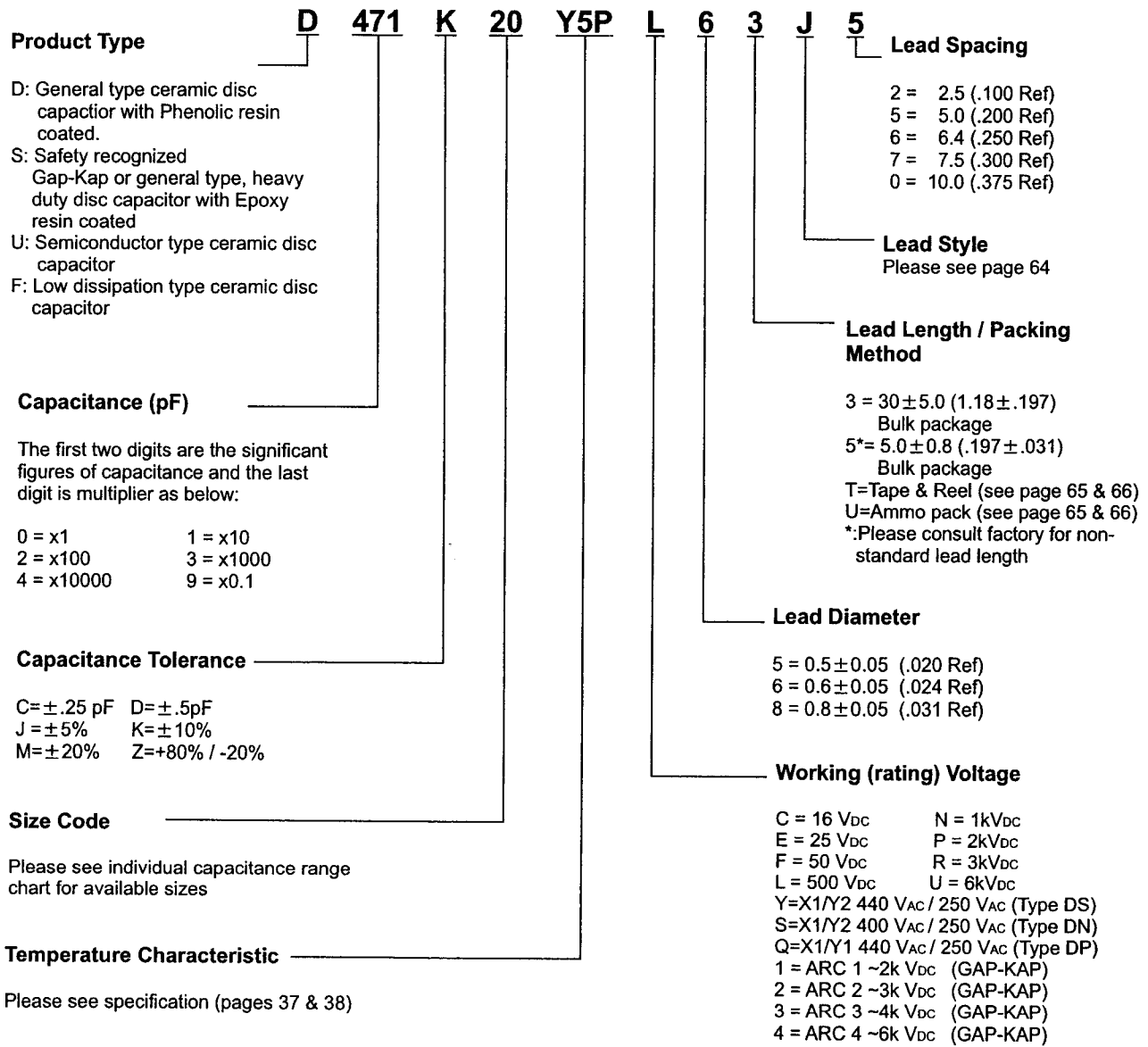


1. Select the required parts from the preferred program or construct the parts number from part numbering systems as shown on pages 67, 68 and 69.

2. Forward either Clear Text Ordering Code or 12-Digit Code (12NC) part number along with other specification, packaging, quantities, delivery requirements and shipping data to Bcomponents sales office.

Clear Text Ordering Code



12-Digit Code (12 NC):

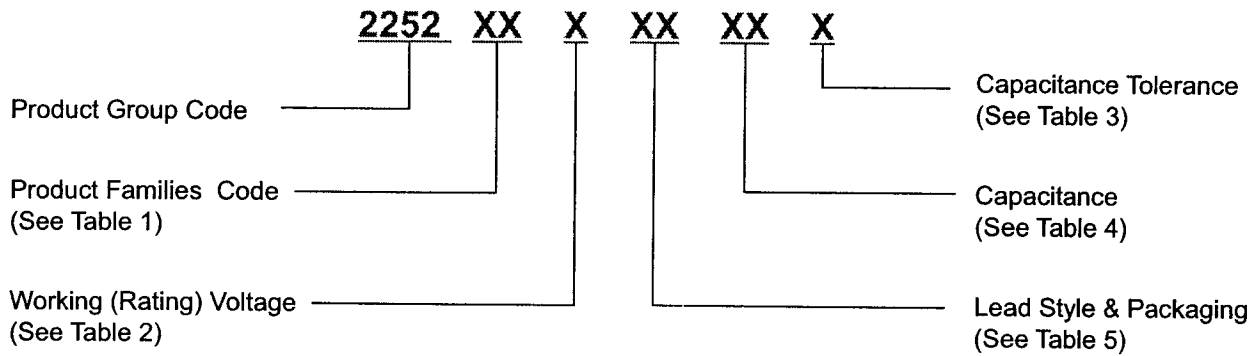


Table 1
Product Families Code

Code NO.	Product Families Code	
50	NP0	General Type
56	SL0	
57	S3N	
60	X7R	
61	Y5P	
63	Y5V	
64	Z5U	
65	Z5V	
66	X5F	
70	Y5P	
71	Y5R	Low loss 0.2%
76	Y5P	Semiconductor Type
77	Y5R	
78	Y5U	
79	Y5V	
81	Safety Recognized	
88	Gap-Kap	
89	Non-Codable	

Table 2
Working Voltage Code

Code No.	General and Low Dissipation Type	Semiconductor Type	Safety Recognized	Gap-kap
0	--	--	--	--
1	1kVdc	16Vdc	X1/Y1(DP Type)	ARC 1~2 kVdc
2	2kVdc	25Vdc	X1/Y2(DN Type) Y5P, Z5U	ARC 2~3 kVdc
3	3kVdc	--	X1/Y2(DN Type) U2M, Y5U, Y5V	ARC 3~4 kVdc
4	6kVdc	--	--	ARC 4~6 kVdc
5	50Vdc	50Vdc	X1/Y2(DS Type)	--
6	100Vdc	--	--	--
7	250Vdc	--	--	--
8	500Vdc	--	--	--
9	NON-CODABLE			

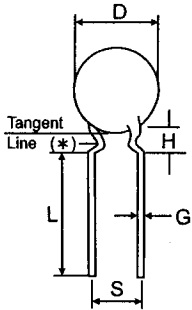
Table 3
Capacitance Tolerance

Phenolic Resin Coated		Epoxy Resin Coated	
Code No.	Capacitance Tol.	Code No.	Capacitance Tol.
0	N/A	6	±10%
1	±10%	7	±20%
2	±20%	8	+80, -20%
3	+80, -20%	9	±5%, for C ≥ 10pF ±.5 pF, for C < 10 pF
4	±.25 pF, for C < 10 pF		
5	±5%, for C ≥ 10pF ±.5 pF, for C < 10 pF		

Dimensions in mm (inch-Ref)

Lead Style J

(Low profile inside kink) **Availability:**



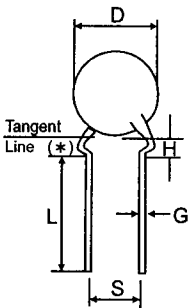
Rating Voltage: $12V_{DC}$ up to $1 K V_{DC}$
 Lead Wire(G) :Please see table 4.
 Lead Length(L):
 Long lead: 30.0 ± 5.0 ($1.18 \pm .197$)
 Short lead: 3.5 (.138) up to 8.0 (.315)
 Lead Spacing(S):Please see table 1.
 Seated Height(H):Please see table 1.
 Coating Rundown Control:
 Free of coating below bending line(*).

Specification	Seated Height (H)		
	Disc Dia. (D)		
Lead Spacing (s)	$D \leq 7.5$ (.295)	7.5 (.295) < $D \leq 12.0$ (.472)	$D > 12.0$ (.472)
2.5 ± 0.8 (.100)	N/A	N/A	N/A
5.0 ± 0.8 (.200)	4.0 (.157)	4.0 (.157)	N/A
6.4 ± 0.8 (.250)	4.0 (.157)	4.0 (.157)	N/A
7.5 ± 0.8 (.300)	4.8 (.189)	4.0 (.157)	4.0 (.157)
10.0 ± 1.0 (.375)	N/A	4.8 (.189)	4.0 (.157)

Table 1

Lead Style K

(Low profile outside kink) **Availability:**



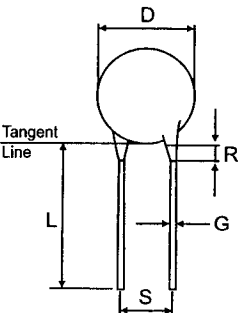
Rating Voltage: All voltage ratings.
 (Recommended for 1KV and above)
 Lead Wire(G): Please see table 4.
 Lead Length(L):
 Long lead: 30.0 ± 5.0 ($1.18 \pm .197$)
 Short lead: 3.5 (.138) up to 8.0 (.315)
 Lead Spacing(S): Please see table 2.
 Seated Height(H): Please see table 2.
 Coating Rundown Control:
 Free of coating below bending line (*).

Specification	Seated Height (H)		
	Disc Dia. (D)		
Lead Spacing (s)	$D \leq 7.5$ (.295)	7.5 (.295) < $D \leq 12.0$ (.472)	$D > 12.0$ (.472)
2.5 ± 0.8 (.100)	4.0 (.157)	4.0 (.157)	N/A
5.0 ± 0.8 (.200)	4.0 (.157)	4.0 (.157)	N/A
6.4 ± 0.8 (.250)	4.0 (.157)	4.0 (.157)	N/A
7.5 ± 0.8 (.300)	4.8 (.189)	4.0 (.157)	4.8 (.189)
10.0 ± 1.0 (.375)	N/A	4.8 (.189)	4.8 (.189)

Table 2

Lead Style L

(Straight lead)



Availability:
 Rating Voltage: All voltage ratings.
 Lead Wire(G): Please see table 4.
 Lead Length(L):
 Long lead: 30.0 ± 5.0 ($1.18 \pm .197$)
 Short lead: 7.0 (.276) up to 10.0 (.394)
 Lead Spacing(S): Please see table 3.
 Coating Rundown Control (R):
 1.5 (.059) Max below $500V_{DC}$
 3.0 (.118) Max $\geq 500V_{DC}$

Lead Spacing	Lead Wire Cood (G)	Specification
2.5 ± 0.8 (.100)		
5.0 ± 0.8 (.200)	5	0.5 ± 0.05 (.020)
6.4 ± 0.8 (.250)	6	0.6 ± 0.05 (.024)
7.5 ± 0.8 (.300)	8	0.8 ± 0.05 (.031)
10.0 ± 1.0 (.375)		

Table 3

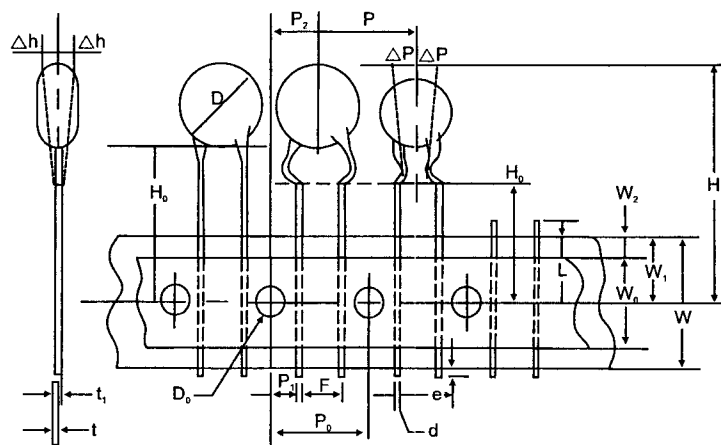
Table 4

RADIAL TAPE, REEL & AMMO PACK

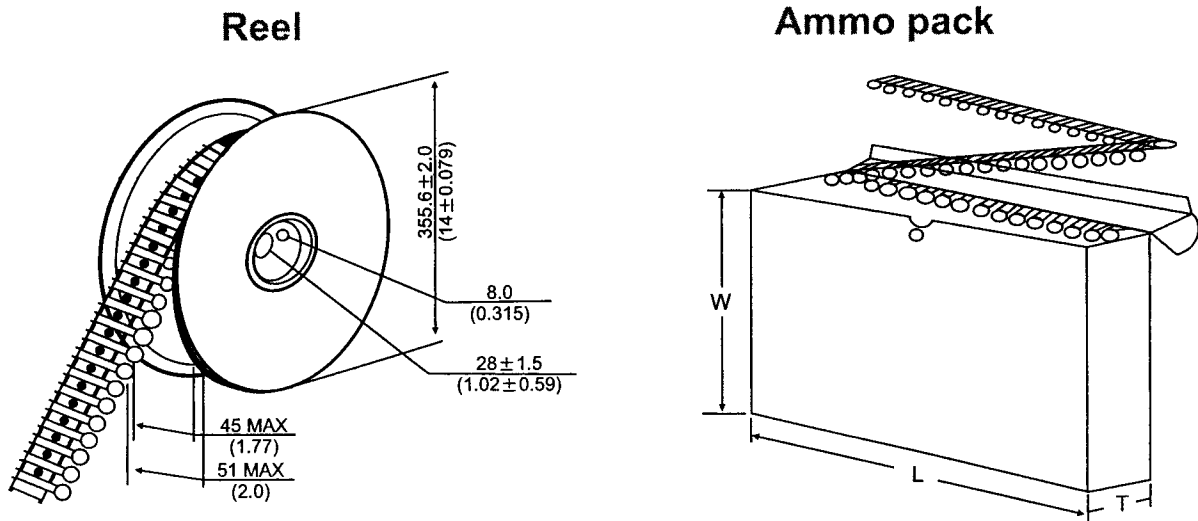
Dimensions in mm

Description	Code	5.0mm Lead Spacing	7.5mm Lead Spacing	10.0mm Lead Spacing
		12.7 mm Feed Hole Pitch	15.0 mm Feed Hole Pitch	12.7 mm Feed Hole Pitch
Body Dimension	D	11.0 max	13.5 max	22.0 max
Feed Hole Diameter	D ₀	4.0±0.2	4.0±0.2	4.0±0.2
Wire Lead Diameter	d	0.6±0.05	0.6 + 0.1 / -0.05	0.8±0.05
Lead End Protrusion	e	1.0 max.	1.0 max.	1.0 max.
Lead Spacing	F	5.0 + 0.6 / - 0.4	7.5 + 0.6 / - 0.4	10.0 + 0.6 / -0.4
Straight Lead Height	H ₀	20.0 + 0.5 / - 1.0	-	-
Lead Crimp Height	H ₀	16.0±0.5	16.0±0.5	16.0±0.5
Top of Component Height	H ₁	32.0 max.	40.0 max.	43.0 max.
Body Inclination	Δh	0±1.0	0±1.0	0±1.0
Rejected Component Cut Height	L	11.0 max.	11.0 max.	11.0 max.
Component Pitch	P	12.7	15.0	25.4
Feed Hole Pitch	P ₀	12.7±0.3	15.0±0.3	12.7±0.3
Feed Hole Off Alignment	P ₁	3.85±0.7	3.75±1.0	7.7±0.7
	P ₂	6.35±1.3	7.5±1.5	12.7±1.5
Plane Deviation	ΔP	1.0 max.	2.0 max.	1.0 max.
Overall Tape Thickness	t	0.9 max.	0.9 max.	0.9 max.
Overall Tape & Lead Thickness	t ₁	1.5 max.	1.5 max.	1.7 max.
Carrier Tape Width	W	18.0±1.0 / - 0.5	18.0±1.0 / - 0.5	18.0 + 1.0 / - 0.5
Adhesive Tape Width	W ₀	5.0 min.	5.0 min.	5.0 min.
Feed Hole Height Off Alignment	W ₁	9.0 + 0.75 / - 0.5	9.0 + 0.75 / - 0.5	9.0 + 0.75 / - 0.5
Adhesive Tape Margin	W ₂	3.0 max.	3.0 max.	3.0 max.

Tape



Note: Illustration for dimensions only. Reels are supplied with only one type of capacitor.



Standard Packaging Quantity (SPQ)

Type	Lead Spacing mm (inch Ref.)	Size code	Rated Voltage	Cardboard Box Size L × W × T (mm)	SPQ (pcs)
Bulk	All (Long Lead)	20 ~ 47	All rated	245 x 120 x 65	1,000
		53 ~ 75			500
		84 ~ 96			250
AMMO	5.0 (.200)	20 ~ 43	<500V _{DC}	335 x 240 x 50	2,000
			500V~1.5KV _{DC}	335 x 290 x 50	2,000
			2KV _{DC}	335 x 290 x 50	1,500
	7.5mm (.300)	33 ~ 53	1KV~2KV _{DC}	360 x 330 x 55	1,500
			3KV _{DC}		1,500
			125~250V _{AC}		1,500
Reel	5.0mm (.200)	20 ~ 43	<500V _{DC}	370 x 370 x 60	2,500
			500V~2KV _{DC}		2,000
	7.5mm (.300)	33 ~ 53	1KV~2KV _{DC}	370 x 370 x 60	1,000
			3KV _{DC}		1,000
			125~250V _{AC}		1,000
					1,000

Table 4
Capacitance Code

Code No.	Capacitance (pF)	Code No.	Capacitance (pF)	Code No.	Capacitance (pF)	Code No.	Capacitance (pF)	Code No.	Capacitance (pF)	Code No.	Capacitance (pF)
00	10	10	15	20	22	30	33	40	47	60	68
01	100	11	150	21	220	31	330	41	470	61	680
02	1,000	12	1,500	22	2,200	32	3,300	42	4,700	62	6,800
03	10,000	13	15,000	23	22,000	33	33,000	43	47,000	63	68,000
04	1.0	14	1.5	24	2.2	34	3.3	44	4.7	64	6.8
05	12	15	18	25	27	35	39	50	56	80	82
06	120	16	180	26	270	36	390	51	560	81	820
07	1,200	17	1,800	27	2,700	37	3,900	52	5,600	82	8,200
08	12,000	18	18,000	28	27,000	38	39,000	53	56,000	83	82,000
09	1.2	19	1.8	29	2.7	39	3.9	54	5.6	84	8.2

Table 5
Lead Style & Packaging Code

Lead Spacing mm (inch - Ref.)	Packaging & Lead Length	T & R	AMMO	Bulk-Long Lead (L=30 ±5.0 mm)			Bulk-Short Lead (L=5.0 ±0.5 mm)		
	Lead Dia. (mm)	0.6	0.6	0.5	0.6	0.8	0.5	0.6	0.8
	Lead Style	Code Number							
2.5 (.100)	Outward Kink (K)	00	01		02			03	
	Straight Lead (L)			04					
5.0 (.200)	Inward Kink (J)	06	08	09	10		11	12	
	Outward Kink (K)	13	14		15			16	
	Straight Lead (L)			17	18				
6.4 (.250)	Inward Kink (J)	19	20		21			22	
	Outward Kink (K)	23	24		25			26	
	Straight Lead (L)				27	28			
7.5 (.300)	Inward Kink (J)				31	32		33	34
	Outward Kink (K)	35	36		37	38		39	40
	Straight Lead (L)				41	42			
10.0 (.375)	Inward Kink (J)				43	44		45	46
	Outward Kink (K)				47	48		49	50
	Straight Lead (L)				51	52			
	Vertical Kink (V)	70	71		72	73			