

Disc Ceramic Capacitors



查询"5AK101KAF"供应商

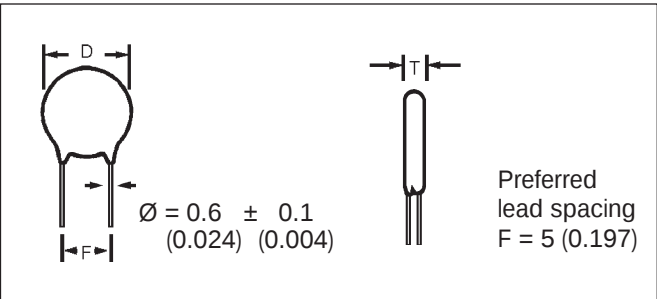
General Specifications - Class II General Purpose

DIELECTRIC - CLASS II

These ceramic capacitors have a high dielectric constant, what makes possible a high capacitance values in reduced dimensions, however temperature coefficient and loss factor are greater than Class I.

Typical applications are decoupling and by pass.

Meets IEC 384-9 (1988).



DIMENSIONS

millimeters (inches)

Digit 9 (ø)	D ± 2 (0.079)	T max.	Available Lead Spacing				
			Vn = 100V/500V	Vn = 1000V	Vn = 2000V	Vn = 3000V	Vn = 4000/5000V
A	4.0 (0.157)	3.0 (0.118)	A,B,D,E,O,R	A,B,E,N,R	A,B,E,N,R	B,E	
B	5.0 (0.197)	4.0 (0.157)	A,B,D,E,O,R,X	A,B,E,N,R,X	A,B,E,N,R	B,E	
C	6.0 (0.236)	4.0 (0.157)	A,B,C,D,E,O,R,X	A,B,C,E,N,R,X	A,B,C,E,N,R	B,C,E	C
D	7.0 (0.276)	4.0 (0.157)	A,B,C,D,E,O,R,X	A,B,C,E,N,Q,R,X	A,B,C,E,N,Q,R	B,C,E	C
E	8.0 (0.315)	4.0 (0.157)	A,B,C,D,E,O,R,X	A,B,C,E,N,Q,R,X	A,B,C,E,N,Q,R	B,C,E	C
F	9.0 (0.354)	5.0 (0.197)	A,B,C,E,O,R,X	A,B,C,E,N,R,X	A,B,C,E,N,R	B,C,E	C
G	10.0 (0.394)	5.0 (0.197)	A,B,C,E,O,R,X	A,B,C,E,N,R,X	A,B,C,E,N,R	B,C,E	C
H	11.0 (0.433)	5.0 (0.197)	A,B,C,E,O,R,X	A,B,C,E,N,P,R,W	A,B,C,E,N,P,R,W	B,C,E,P,W	C,P
J	13.0 (0.512)	6.0 (0.236)	B,C,R,W	B,C,N,P,R,W	B,C,P,W	B,C,P,W	C,P
K	15.0 (0.591)	6.0 (0.236)	B,C,R,W	B,C,N,P,R,W	B,C,P,W	B,C,P,W	C,P
M	19.0 (0.748)	7.0 (0.276)	B,C	B,C,P	B,C,P	B,C,P	C,P

(E), (X), (W): upon request

LEAD SPACING – DIGIT 8 OF P.N. millimeters (inches)

	100V/500V		1kV...5kV/100Vac...150Vac		
F					
2.5 (0.100)	D	—	—	—	—
5 (0.200)	A	O	A	—	N
6 (0.250)	E	X	E	X	—
7.5 (0.300)	B	R	B	R	Q
10 (0.400)	C	W	C	W	—
12.5 (0.500)	P	—	P	—	—

100V / 500V PERFORMANCE CHARACTERISTICS CLASS II

Voltage Rating	100V and 500V
Measured at	1.0 kHz / 0.3 Vrms / 25°C
Dissipation Factor	Y5E / Y5F / Y5P $\leq$ 2.5% Y5U / Y5V / Z5V $\leq$ 3.0%
Capacitance Tolerance	Y5E / Y5F / Y5P $\rightarrow$ $\pm$ 10% Y5E / Y5E / Y5P / Y5U $\rightarrow$ $\pm$ 20% Y5U / Y5V / Z5V $\rightarrow$ -20% +50%
Insulation Resistance	@ $V_R \rightarrow \geq 10 \text{ G}\Omega$
Dielectric Strength NOTE: Charging current limited to 50 mA	$V_R = 100\text{V} \rightarrow V_t = 250\text{V (DC)}$ $V_R = 500\text{V} \rightarrow V_t = 1250\text{V (DC)}$
Operating Temperature Range (°C)	-30... +85
Climatic Category	30 / 085 / 21 Phenolic Coated

Note: Damp Heat Steady State: 90... 95% R.H. 40°C / 21 days. No voltage to be applied.

1kV ... 5kV PERFORMANCE CHARACTERISTICS CLASS II

Voltage Rating	1kV ... 5kV
Measured at	1.0 kHz / 0.3 Vrms / 25°C
Dissipation Factor	Y5F $\rightarrow \leq 2.5\%$ Y5U / Y5V $\leq 3.0\%$
Capacitance Tolerance	Y5F $\rightarrow \pm 10\% / \pm 20\%$ Y5U $\rightarrow \pm 20\% / -20 +50\%$ Y5V $\rightarrow -20 +50\%$
Insulation Resistance	@ 500V $\rightarrow \geq 10 \text{ G}\Omega$
Dielectric Strength NOTE: Charging current limited to 50 mA	$1.5 \times V_R + 500 \text{ (DC)}$
Operating Temperature Range (°C)	-30... +85 Phenolic Coated -30... +125 Epoxy Coated
Climatic Category	30 / 085 / 21 Phenolic Coated 30 / 085 / 56 Epoxy Coated

Note: Damp Heat Steady State: 90... 95% R.H. 40°C / 21 days. No voltage to be applied.

Disc Ceramic Capacitors

Dimension Table – Class II

Low and Medium Voltage General Purpose



100V / 500V CLASS II – CAPACITANCE VS. DISC DIAMETER

millimeters (inches)

Temp. Coefficient	Y5E		Y5F		Y5P		Y5U		Y5V		Z5V	
Digits 1,2,3 of P.N.	5MK	5MQ	5NK	5NQ	5OK	5OQ	5SK	5SQ	5TK	5TQ	5UK	
Rated Voltage (V _R)	100 VDC	500 VDC	100 VDC	500 VDC	100 VDC	500 VDC	100 VDC	500 VDC	100 VDC	500 VDC	100 VDC	
C _R (pF)												
56	4.0 (0.157)	4.0 (0.157)	Use Y5E	Use Y5E	Use Y5E	Use Y5E	Use Y5E	Use Y5E	Use Y5E	Use Y5E	Use Y5E	
68												
82												
100												
120												
150												
180												
220												
270												
330												
390	5.0 (0.197)	5.0 (0.197)	4.0 (0.157)	4.0 (0.157)	Use Y5F	Use Y5F	Use Y5F	Use Y5F	Use Y5F	Use Y5F	Use Y5F	
470			5.0 (0.197)	5.0 (0.197)	4.0 (0.157)	4.0 (0.157)	Use Y5P	Use Y5P	Use Y5P	Use Y5P	Use Y5P	
560		6.0 (0.236)			5.0 (0.197)	5.0 (0.197)	4.0 (0.157)	4.0 (0.157)	Use Y5U	Use Y5U	Use Y5U	
680		7.0 (0.276)		6.0 (0.236)								6.0 (0.236)
820	7.0 (0.276)			7.0 (0.276)								7.0 (0.276)
1,000	7.0 (0.276)	7.0 (0.276)		7.0 (0.276)	8.0 (0.315)	8.0 (0.315)	5.0 (0.197)	5.0 (0.197)	4.0 (0.157)	4.0 (0.157)	Use Y5V	
1,200	8.0 (0.315)	8.0 (0.315)	8.0 (0.315)	8.0 (0.315)	8.0 (0.315)							
1,500	8.0 (0.315)	9.0 (0.354)	7.0 (0.276)	8.0 (0.315)	6.0 (0.236)	7.0 (0.276)	5.0 (0.197)	6.0 (0.236)	4.0 (0.157)	4.0 (0.157)		
1,800	9.0 (0.354)	11.0 (0.433)	9.0 (0.354)	7.0 (0.276)	8.0 (0.315)	8.0 (0.315)						7.0 (0.276)
2,200			11.0 (0.433)	8.0 (0.315)	11.0 (0.433)	8.0 (0.315)	9.0 (0.354)	6.0 (0.236)	8.0 (0.315)	5.0 (0.197)		
2,700	11.0 (0.433)	15.0 (0.591)	9.0 (0.354)	13.0 (0.512)	9.0 (0.354)	9.0 (0.354)	8.0 (0.315)					5.0 (0.197)
3,300			11.0 (0.433)	15.0 (0.591)	11.0 (0.433)	11.0 (0.433)		7.0 (0.276)	9.0 (0.354)	6.0 (0.236)		
3,900												13.0 (0.512)
4,700			11.0 (0.433)	15.0 (0.591)	13.0 (0.512)	15.0 (0.591)		9.0 (0.354)	11.0 (0.433)	7.0 (0.276)		
5,600												11.0 (0.433)
6,800			11.0 (0.433)	15.0 (0.591)	13.0 (0.512)	15.0 (0.591)		9.0 (0.354)	11.0 (0.433)	7.0 (0.276)		
8,200												11.0 (0.433)
10,000			11.0 (0.433)	15.0 (0.591)	13.0 (0.512)	15.0 (0.591)		9.0 (0.354)	11.0 (0.433)	7.0 (0.276)		
12,000												11.0 (0.433)
15,000			11.0 (0.433)	15.0 (0.591)	13.0 (0.512)	15.0 (0.591)		9.0 (0.354)	11.0 (0.433)	7.0 (0.276)		
22,000							11.0 (0.433)				15.0 (0.591)	13.0 (0.512)

Diameter (φ) = 9th Part Number Digit

Disc Ceramic Capacitors



Dimension Table
[查询5A101KA7A1 供应商](#)

High Voltage - Class II General Purpose

1kV / 5kV CLASS II – CAPACITANCE VS. DISC DIAMETER

millimeters (inches)

Temp. Coefficient	Y5F			Y5U					Y5V		
Digits 1,2,3 of P.N.	5NR	5NS	5NT	5SR	5SS	5ST	5SU	5SW	5TR	5TS	5TT
Rated Voltage (V _R)	1000 VDC 100 VAC	2000 VDC 150 VAC	3000 VDC 150 VAC	1000 VDC 100 VAC	2000 VDC 150 VAC	3000 VDC 150 VAC	4000 VDC 150 VAC	5000 VDC 150 VAC	1000 VDC 150 VAC	2000 VDC 150 VAC	3000 VDC 150 VAC
C _R (pF)											
100	4.0 (0.157)	4.0 (0.157)		Use Y5F	Use Y5F	Use Y5F	8.0 (0.315)	11.0 (0.433)	Use Y5F	Use Y5F	Use Y5F
120											
150											
180											
220											
270											
330	5.0 (0.197)	5.0 (0.197)		4.0 (0.157)	5.0 (0.197)	7.0 (0.276)	8.0 (0.315)	11.0 (0.433)	Use Y5U	Use Y5U	Use Y5U
390											
470											
560											
680											
820	7.0 (0.276)	7.0 (0.276)		5.0 (0.197)	6.0 (0.236)	8.0 (0.315)	10.0 (0.394)	13.0 (0.512)	4.0 (0.157)	6.0 (0.236)	7.0 (0.276)
1,000											
1,200											
1,500											
1,800											
2,200	11.0 (0.433)	11.0 (0.433)		7.0 (0.276)	9.0 (0.354)	10.0 (0.394)	11.0 (0.433)	13.0 (0.512)	5.0 (0.197)	7.0 (0.276)	8.0 (0.315)
2,700											
3,300											
3,900											
4,700											
5,600				8.0 (0.315)	10.0 (0.394)	11.0 (0.433)	13.0 (0.512)	15.0 (0.591)	7.0 (0.276)	9.0 (0.354)	11.0 (0.433)
6,800											
8,200											
10,000											
12,000											
15,000				9.0 (0.354)	11.0 (0.433)	13.0 (0.512)	15.0 (0.591)	19.0 (0.748)	9.0 (0.354)	11.0 (0.433)	13.0 (0.512)
22,000											

Diameter (φ) = 9th Part Number Digit

Disc Ceramic Capacitors



查询"5AK101KAF"供应商
Ordering Code

HOW TO ORDER

5		O	Q		222	
General Purpose		Professional Switch Mode Safety	Rated Voltage (dc)		Capacitance 222 = 2.2 nF	
5A = NP0 / I		6A = NP0 / I	D = 16V			
*5B = P100 / I		*6B = P100 / I	F = 25V			
*5C = N150 / I		*6C = N150 / I	H = 50V			
*5D = N220 / I		*6D = N220 / I	K = 100V			
*5E = N330 / I		*6E = N330 / I	N = SAFETY			
*5F = N470 / I		*6F = N470 / I	O = SAFETY			
5G = N750 / I		6G = N750 / I	Q = 500V			
5H = N1500 / I		*6H = N1500 / I	R = 1000V			
*5I = N2200 / I		*6I = N2200 / I	S = 2000V			
*5J = N4700 / I		6J = N4700 / I	T = 3000V			
5K = SL		61 = SAFETY	U = 4000V			
5M = Y5E / II		62 = SAFETY	V = SAFETY			
5N = Y5F / II		65 = SAFETY	W = 5000V			
5O = Y5P / II		67 = Y5U / SM	*X = 6000V			
*5P = Y5R / II		68 = Y5V / SM	*Y = 7500V			
*5Q = Y5T / II		6L = Y5P / SM				
5S = Y5U / II		6M = X5E / II				
5T = Y5V / II		6N = X5F / II				
5U = Z5V / II		6O = X5P / II				
*5V = Z4V / III		*6P = X5R / II				
5W = Y5P / III		*6Q = X5T / II				
5Y = Y5U / III		6S = X5U / II				
5Z = Y5V / III		6T = X5V / II				
		6U = Z5V / II				
		*6V = Z4V / III				
		6W = Y5P / III				
		6Y = Y5U / III				
		6Z = Y5V / III				

*Upon Request

Disc Ceramic Capacitors



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Ordering Code

M

Tolerance

C = ± 0.25 pF
D = ± 0.50 pF
J = $\pm 5\%$
K = $\pm 10\%$
M = $\pm 20\%$
S = -20+50%
Z = -20+80%
P = 0+100%

A

Capacitor Diameter ± 2 (0.079)

A = 4 (0.157)
B = 5 (0.197)
C = 6 (0.236)
D = 7 (0.276)
E = 8 (0.315)
F = 9 (0.354)
G = 10 (0.394)
H = 11 (0.433)
J = 13 (0.512)
K = 15 (0.591)
M* = 19 (0.748)

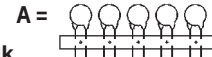
*Wire 0.8 (0.031) recommended

A

A

Packaging

Cardboard Strips



Bulk

E = 5 (0.197) ± 1 (0.039) free wire length
C = 10 (0.394) ± 1 (0.039) free wire length
D = 25 (0.984) ± 1 (0.039) free wire length

Taping

Reel



Avisert			Panaset		
H	L	L	J	L	L

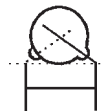


Avisert			Panaset		
I	M	M	K	M	M

Lead Forming				
mm	inches			
2.5 ± 0.5	.1 $\pm .025$	D	—	—
5 $\begin{smallmatrix} +0.6 \\ -0.2 \end{smallmatrix}$	.2 $\pm .025$	A	O	N
6 $\begin{smallmatrix} +0.6 \\ -0.2 \end{smallmatrix}$	.25 $\pm .025$	E	X	—
7.5 $\begin{smallmatrix} +1 \\ -0.5 \end{smallmatrix}$	.3 $\pm .05$	B	R	Q
10 $\begin{smallmatrix} +0.5 \\ -1.0 \end{smallmatrix}$	.4 $\pm .05$	C	W	—
12.5 $\begin{smallmatrix} +1 \\ -0.5 \end{smallmatrix}$	.5 $\pm .05$	P	—	—

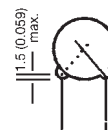
Finishing

Diam ≤ 9 (0.354) and
F = 5.00 (0.197)



Coating does not
surpass the bend

For every other:



Low Voltage

A = Phenolic (General Purpose) Q = Waxed phenolic

S = Epoxy (Professional) cap. diameter
 ≤ 8 (0.315)

D = Epoxy (Professional) cap. diameter
 > 8 (0.315)

High Voltage



F = Measured
from the
center of
leads

C = Epoxy wire diameter $\begin{smallmatrix} 0.6 \\ (0.024) \end{smallmatrix} \pm \begin{smallmatrix} 0.1 \\ (0.004) \end{smallmatrix}$

I = Epoxy wire diameter $\begin{smallmatrix} 0.8 \\ (0.031) \end{smallmatrix} \pm \begin{smallmatrix} 0.1 \\ (0.004) \end{smallmatrix}$

L = Phenolic wire diameter $\begin{smallmatrix} 0.6 \\ (0.024) \end{smallmatrix} \pm \begin{smallmatrix} 0.1 \\ (0.004) \end{smallmatrix}$

Please note that not all code combinations
are either possible or available.

Disc Ceramic Capacitors



查询"5AK101KAFI"供应商
Marking

DIG. 2		Logo: Only in diam. ≥ 6mm	Capacitance		EIA
O					
TC / Class					
General Purpose	Professional				
A = NP0 / I	A = NP0 / I		1pF = 109	100pF = 101	
*B = P100 / I	B = P100 / I		1.2pF = 129	120pF = 121	
*C = N150 / I	C = N150 / I		1.5pF = 159	150pF = 151	
*D = N220 / I	D = N220 / I		1.8pF = 189	180pF = 181	
*E = N330 / I	E = N330 / I		2.2pF = 229	220pF = 221	
*F = N470 / I	F = N470 / I		2.7pF = 279	270pF = 271	
G = N750 / I	G = N750 / I		3.9pF = 399	390pF = 391	
H = N1500 / I	H = N1500 / I		4.7pF = 479	470pF = 471	
*I = N2200 / I	I = N2200 / I		5.6pF = 569	560pF = 561	
*J = N4700 / I	J = N4700 / I		6.8pF = 689	680pF = 681	
K = SL	7 = Y5U / SM		8.2pF = 829	820pF = 821	
M = Y5E / II	8 = Y5V / SM		10pF = 100	1nF = 102	
N = Y5F / II	L = Y5P / SM		12pF = 120	1.2nF = 122	
O = Y5P / II	M = X5E / II		15pF = 150	1.8nF = 182	
P = Y5R / II	N = X5F / II		18pF = 180	2.2nF = 222	
Q = Y5T / II	O = X5P / II		22pF = 220	2.7nF = 272	
S = Y5U / II	P = X5R / II		27pF = 270	3.9nF = 392	
T = Y5V / II	Q = X5T / II		39pF = 390	4.7nF = 472	
U = Z5V / II	S = X5U / II		47pF = 470	5.6nF = 562	
V = Z4V / III	T = X5V / II		56pF = 560	6.8nF = 682	
*W = Y5P / II	U = Z5V / II		68pF = 680	8.2nF = 822	
*X = Y5R / II	V = Z4V / III		82pF = 820	10nF = 103	
Y = Y5U / II	W = Y5P / III			15nF = 153	
Z = Y5V / II	X = Y5R / III			22nF = 223	
	Y = Y5U / III			33nF = 333	
	Z = Y5V / III			47nF = 473	
				100nF = 104	
				200nF = 204	

DIG. 3	DIG. 7
Q	M
Rated Voltage	Tolerance
D = 16V	C = ±0.25pF
F = 25V	D = ±0.5pF
H = 50V	J = ±5%
K = 100V	K = ±10%
Q = 500V	M = ±20%
R = 1000V	S = -20 +50%
S = 2000V	Z = -20 +80%
T = 3000V	P = 0 +100%
U = 4000V	
W = 5000V	
X = 6000V	
Y = 7500V	

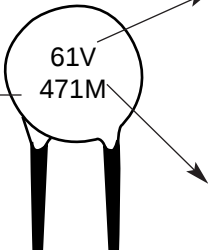
Safety Front	Type
	61V

*Upon Request

*Upon Request

TC – Temperature coefficient.

DIG – for better understanding, check pages 3 and 4.

Safety Front					
<table><tr><th>Capacitance</th></tr><tr><td>As above</td></tr></table>	Capacitance	As above			
Capacitance					
As above					
	<table><tr><th>Type</th></tr><tr><td>61V</td></tr><tr><td>620</td></tr><tr><td>65N</td></tr></table>	Type	61V	620	65N
Type					
61V					
620					
65N					
	<table><tr><th>Tolerance</th></tr><tr><td>As above</td></tr></table>	Tolerance	As above		
Tolerance					
As above					

Back: (Approval marks)

Back: (Approval marks)

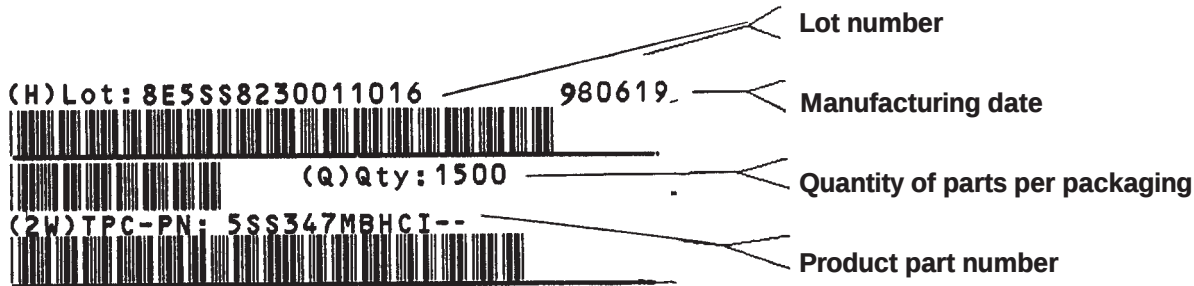
Disc Ceramic Capacitors



查询"5AK101KAFI"供应商
Packaging

IDENTIFICATION AND TRACEABILITY

On all TPC ceramic capacitors packages, you will find a bar code label with the following information:



TAPED PARTS QUANTITY TABLE

millimeters (inches)

Rated Voltage	Diameter	Quantities	
(Vr)	D	Ammopack	Reel
Vr ≤ 500V	D ≤ 7 (0.276)	2000	2500
	7 < D ≤ 11 (0.433)	2000	2000
500V < Vr ≤ 2KV	D ≤ 11 (0.433)	1500	2000
2KV < Vr = 5KV	D ≤ 11 (0.433)	1000	1500

CARDBOARD STRIPS QUANTITY TABLE

millimeters (inches)

Rated Voltage	Diameter	Lead Space	
(Vr)	D	≤ 5 (0.197)	> 5 (0.197)
Vr ≤ 500V	D ≤ 8 (0.315)	2500	1500
	8 (0.315) ≤ D ≤ 11 (0.433)	1500	-
	8 (0.315) ≤ D ≤ 13 (0.512)	-	1000
	11 (0.433) ≤ D ≤ 15 (0.591)	1000	-
	13 (0.512) ≤ D ≤ 19 (0.748)	-	500
	D ≤ 19 (0.748)	500	-
500V < Vr ≤ 2KV	D ≤ 9 (0.354)	1500	1000
	9 (0.354) ≤ D ≤ 11 (0.433)	-	1000
	9 (0.354) ≤ D ≤ 13 (0.512)	1000	-
	11 (0.433) ≤ D ≤ 19 (0.748)	-	500
	13 (0.512) ≤ D ≤ 19 (0.748)	500	-
2KV < Vr ≤ 5KV	D ≤ 9 (0.354)	1500	-
Safety 65N 62O	D ≤ 11 (0.433)	-	1000
	D ≤ 13 (0.512)	500	500
Safety	D ≤ 6 (0.236)	1500	1500
61V	7 (0.275) ≤ D ≤ 9 (0.354)	1000	1000
	9 (0.354) ≤ D	500	500

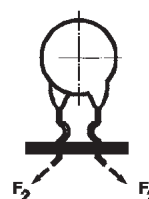
Quantities for other package alternative, upon request.

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Both types can be shipped on reels or ammopack. The standard packaging quantities are shown bellow:



Crimped leads



Maximum pull force during insertion and lead cut

	F_1	F_2
$4 (0.157) \leq D < 6 (0.236)$	12N	20N
$D \geq 6 (0.236)$	20N	25N

Digit 11	Available Tapings			Digit 9
L M	➡	Sizes	4 $(0.157) \leq D \leq 11 (0.433)$	A... H
J H K I	➡	Sizes	6 $(0.236) \leq D \leq 11 (0.433)$	C... H

TPC Code Digit 11

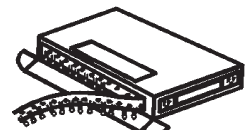
Packaging	Avisert	Panasert
Reel 	 H  L  L FIGURE 1 FIGURE 2 FIGURE 3	 J  L  L FIGURE 1 FIGURE 2 FIGURE 3
Ammopack 	 I  M  M FIGURE 1 FIGURE 2 FIGURE 3	 K  M  M FIGURE 1 FIGURE 2 FIGURE 3

Figure 3: Outside Crimp 1000V

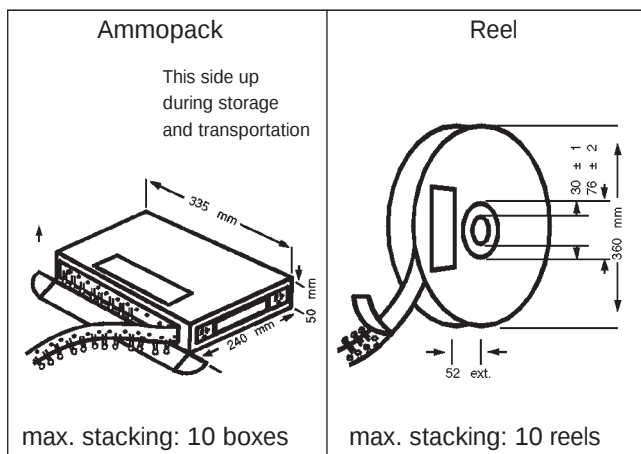
Disc Ceramic Capacitors



Tape and Reel Specifications

		millimeters (inches)		
Description of Symbols		Straight Leads		Crimped
		Figure 1		Figure 2 & 3
		A (Avisert)	P (Panaset)	Avisert & Panaset
Crimp angle	∞	—	—	20°...45°
Crimp length	C	—	—	1.7 min.
Lead diameter	d	0.60 ± 0.1		
Disc diameter	D	11 max.		
Lead hole diameter	Do	4.0 ± 0.2		
Disc thickness	T	See Catalog		
Lead spacing	F	5.0 ^{+0.6} _{-0.2}		
Component alignment, front-rear	Δh	0 ± 1		
Height of component from tape center	H	19.5 ± 0.5	16.5 ± 0.5 - 0	—
Height from tape center to crimp	Ho	—	—	16 + 0.5 - 0
Component height	H1	32.25 max.	>23.5 <32.25	32.25 max.
Distance from component leads to tape bottom	ℓ_1	12 max.		
Tape width	W	18 ⁺¹ _{-0.5}		
Bonding tape width	W ₃	5.5 min.		
Feed hole position	W ₁	9.0 ± 0.5		
Pitch between discs	P	12.7 ± 1		
Feed hole pitch	Po	12.7 ± 0.3		
Hole center to lead	P1	3.85 ± 0.7		
Feed hole center to component center	P2	6.35 ± 1		
Tape + bonding tape thickness	t	0.7 ± 0.2		
Total tape thickness, including lead	t ₂	1.5 max.		

PACKAGING



SHIPPING CONTAINER

