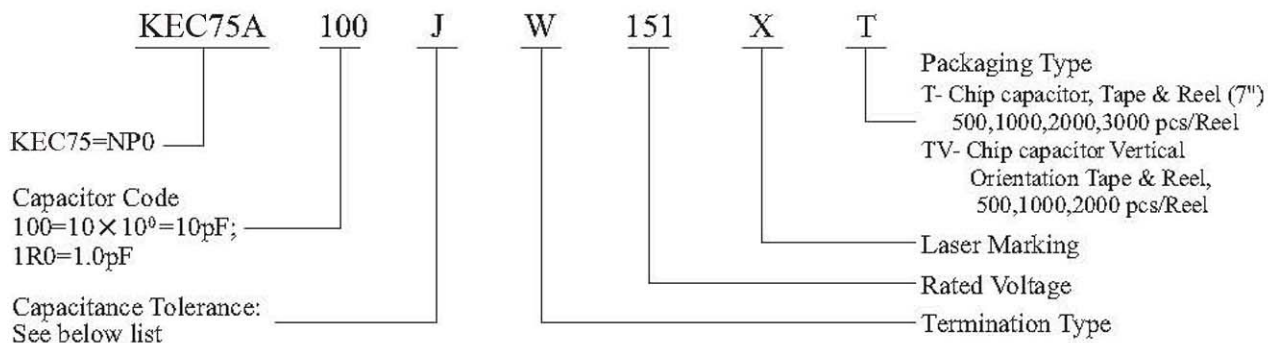


**KEC75A (.050" x .050")**
**◆ KEC75A Capacitance Table**

Cap.pF	Code	Tol.	Rated WVDC	Cap.pF	Code	Tol.	Rated WVDC	Cap.pF	Code	Tol.	Rated WVDC	Cap.pF	Code	Tol.	Rated WVDC
0.1	0R1		150V Code 151 or 300V Code 301	2.4	2R4	A, B, C, D	150V Code 151 or 300V Code 301	20	200	F, G, J,	150V Code 151 or 300V Code 301	160	161	F, G, J,	150V
0.2	0R2	2.7		2R7	22			220	180			181	Code		
0.3	0R3	3.0		3R0	24			240	200			201	151		
0.4	0R4	3.3		3R3	27			270	220			221	or		
0.5	0R5	3.6		3R6	30			300	240			241	200V		
0.6	0R6	3.9		3R9	33			330	270			271	Code		
0.7	0R7	4.3		4R3	36			360	300			301	201		
0.8	0R8	4.7		4R7	39			390	330			331	150V Code 151		
0.9	0R9	5.1		5R1	43			430	360			361			
1.0	1R0	5.6		5R6	47			470	390			391			
1.1	1R1	6.2		6R2	51	510		430	431						
1.2	1R2	6.8		6R8	56	560		470	471						
1.3	1R3	7.5		7R5	62	620		510	511						
1.4	1R4	8.2		8R2	68	680		560	561						
1.5	1R5	9.1		9R1	75	750		620	621						
1.6	1R6	10		100	82	820		680	681	50V Code 500 or 100V Code 101					
1.7	1R7	11		110	91	910		750	751						
1.8	1R8	12		120	100	101		820	821						
1.9	1R9	13		130	110	111		910	911						
2.0	2R0	15		150	120	121		1000	102						
2.1	2R1	16		160	130	131									
2.2	2R2	18		180	150	151									

Remark: special capacitance, tolerance and WVDC are available, consult with Kete.

◆ **Part Numbering**



Code	A	B	C	D	F	G	J
Tolerance	± 0.05pF	± 0.1pF	± 0.25pF	± 0.5pF	± 1%	± 2%	± 5%

◆ **KEC75A Chip Dimensions**

unit:inch(millimeter)

Series	Term. Code	Type / Outlines	Capacitor Dimensions				Plated Material
			Length (Lc)	Width (Wc)	Thickness (Tc)	Overlap (B)	
KEC75A	W	 Chip	.055 +.015~- .010	.055 ± .010	.057 (1.45)	.024 (0.6)	100% Sn Solder over Nickel Plating
	L		(1.40+ 0.38~ -0.25)	(1.40 ± 0.25)	max	max	90 Sn10Pb Solder over Nickel Plating

◆ **Design Kits**

These capacitors are 100% RoHS. Kits contain 10(ten) pieces per value; number of values per kit varies, depending on case size and capacitance.

Kit	Description (pF)	Values (pF)	Tolerance
DKKEC75A01	0.2 - 10	0.2, 0.5, 0.7, 0.8, 1.0, 1.2, 1.5, 1.8, 2.0, 2.4, 2.7, 3.0, 3.3, 3.9,	± 0.10pF
		4.7, 5.6, 6.8, 8.2	± 0.10pF
		10	± 5%
DKKEC75A02	10 - 100	10, 12, 15, 18, 20, 22, 24, 27, 30, 33, 39, 47, 56, 68, 82, 100	± 5%
DKKEC75A03	100 - 1000	100, 120, 150, 180, 200, 220, 240, 270, 300, 390, 470, 560, 680, 820, 1000	± 5%

### ◆ Performance

Item	Specifications
Quality Factor (Q)	2,000 min.
Insulation Resistance (IR)	10 <sup>5</sup> Megohms min. @ +25°C at rated WVDC. 10 <sup>4</sup> Megohms min. @ +125°C at rated WVDC.
Rated Voltage	See capacitance table
Dielectric Withstanding Voltage (DWV)	250% of rated voltage for 5 seconds.
Operating Temperature Range	-55°C to +175°C
Temperature Coefficient (TC)	0 ± 30ppm/°C
Capacitance Drift	±0.02% or ±0.02pF, whichever is greater.
Piezoelectric Effects	None

### ◆ Environmental Tests

Item	Specifications	Method
Terminal Adhesion	Termination should not pull off. Ceramic should remain undamaged.	Linear pull force exerted on axial leads soldered to each terminal. 2.0lbs.
Resistance to soldering heat	No mechanical damage Capacitance change: -1.0% ~ +2.0% Q>500 I.R. >10 G Ohms Breakdown voltage: 2.5 x WVDC	Preheat device to 150°C-180°C for 60 sec. Dip in 260°±5°C solder for 10±1 sec. Measure after 24±2 hours cooling period.
Thermal Shock	No mechanical damage Capacitance change:±0.5% or 0.5pF max Q>2000 I.R. >10 G Ohms Breakdown voltage: 2.5 x WVDC	MIL-STD-202, Method 107, Condition A. At the maximum rated temperature (-55°C and 125°C) stay 30 minutes. The time of removing shall not be more than 3 minutes. Perform the five cycles.
Humidity, Steady State	No mechanical damage Capacitance change: ±0.5% or 0.5pF max. Q>300 I.R. >1 G Ohms Breakdown voltage: 2.5 x WVDC	MIL-STD-202, Method 106.
Low Voltage Humidity	No mechanical damage Capacitance change: ±0.3% or 0.3pF max. Q>300 I.R. >1 G Ohms Breakdown voltage: 2.5 x WVDC	MIL-STD-202, Method 103, Condition A, with 1.5 Volts D.C. applied while subjected to an environment of 85°C with 85% relative humidity for 240 hours minimum.
Life	No mechanical damage Capacitance change: ±2.0% or 0.5pF max. Q>500 I.R. >1 G Ohms Breakdown voltage: 2.5 x WVDC	MIL-STD-202, Method 108, for 1000 hours, at 125°C. 200% Rated voltage D.C. applied.