

KEC70 Series

◆ Product Features

High Q, High Power, Low ESR/ESL, Low Noise, High Self-Resonance,
Ultra-Stable Performance.

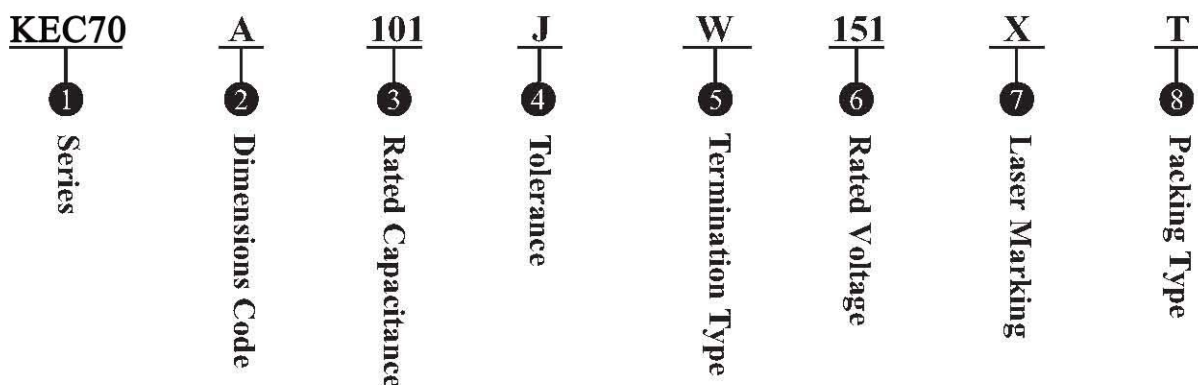
◆ Product Application

Typical Functional Applications: Tuning, Bypass, Coupling, Feedback, D.C. Blocking
and Impedance Matching.

Typical Circuit Applications: UHF/Microwave RF Power Amplifiers, Mixers, Oscillators, Low Noise
Amplifiers, Filter Networks, Timing Circuits and Delay Lines.

Typical Applications Field: Wireless Broadcasting Equipment, Mobile Base Stations, GPS Portables,
Medical (MRI coils), Radar.

◆ Part Numbering Overview



① **Series:** Kete 70 Series High Q High Power Capacitor, Temperature Coefficient: $0 \pm 30\text{ppm}/^{\circ}\text{C}$.

② Dimensions Code

unit:inch(millimeter)

	KEC70H	KEC70P	KEC70A	KEC70D
Length	.040 \pm .004(1.02 \pm 0.10)	.060 \pm .006(1.52 \pm 0.15)	.055(+.015~- .010) (1.40+0.38~-0.25)	.080 \pm .010(2.03 \pm 0.25)
Width	.020 \pm .004(0.51 \pm 0.10)	.030 \pm .006(0.81 \pm 0.15)	.055 \pm .010(1.40 \pm 0.25)	.050 \pm .010(1.27 \pm 0.25)
Thickness	.020 \pm .004(0.51 \pm 0.10)	.030(+.005~- .003) (0.76+0.13~-0.08)	.057(1.45)max	.057(1.45)max

	KEC70R	KEC70B	KEC70C	KEC70E
Length	.070 \pm .015(1.78 \pm 0.38)	.110(+.020~- .010) (2.79+0.51~-0.25)	.225(+.025~- .010) (5.72+0.51~-0.25)	.380(+.015~- .010) (9.65+0.38~-0.25)
Width	.100 \pm .015(2.54 \pm 0.38)	.110 \pm .010(2.79 \pm 0.25)	.250 \pm .015(6.35 \pm 0.38)	.380 \pm .010(9.65 \pm 0.25)
Thickness	.120(3.05)max	.100(2.54)max	.165(4.19)max	.170(4.32)max

③ Rated Capacitance

Capacitance is less than 10pF; for example: 1R0=1.0pF, R denote decimal point.

Capacitance is greater than 10pF; for example: 101=100pF, the third number is the power of 10.

④ Tolerance

Code	A	B	C	D	F	G	J
Tolerance	$\pm 0.05\text{pF}$	$\pm 0.1\text{pF}$	$\pm 0.25\text{pF}$	$\pm 0.5\text{pF}$	$\pm 1\%$	$\pm 2\%$	$\pm 5\%$

⑤ Termination Type

Code	W	P	L
Type	100% Sn Solder over Nickel Plating	100% Sn Solder over Copper Plating (RoHS Compliant)	90% Sn10%Pb Solder over Nickel Plating (Tin/Lead)

Code	MS	AR	RR	AW	RW
Type	Microstrip	Axial Ribbon	Radial Ribbon	Axial Wire	Radial Wire

Code	MN	AN	FN	BN	RN
Type	Non-mag Microstrip	Non-mag Axial Ribbon	Non-mag Radial Ribbon	Non-mag Axial Wire	Non-mag Radial Wire

⑥ Rated Voltage

Code	Rated Voltage(V)	Code	Rated Voltage(V)	Code	Rated Voltage(V)
500	50	301	300	252	2500
101	100	501	500	302	3000
151	150	601	600	362	3600
201	200	102	1000	722	7200
251	250	152	1500		

⑦ Laser Marking

X denotes Marking. Capacitance is less than 10pF; for example: the marking of 1.0pF is 1R0.

Capacitance is greater than 10pF; for example: the marking of 100pF is 101.

⑧ Packaging Type

	70H	70P	70D	70A	70B	70C	70E	70R
T: Horizontal Taping	✓	✓	✓	✓	✓	✓	✓	✓
TV: Vertical Taping			✓	✓	✓	✓		✓
B: Plastic Bag				✓	✓			
C: Waffle Box						✓	✓	

◆ Performance Requirements

Capacitors are designed and manufactured to meet the requirements of MIL-PRF-55681 and MIL-PRF-123.