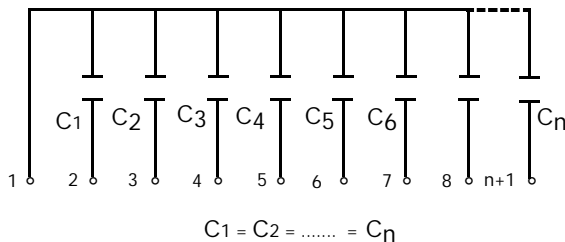


Capacitor Networks

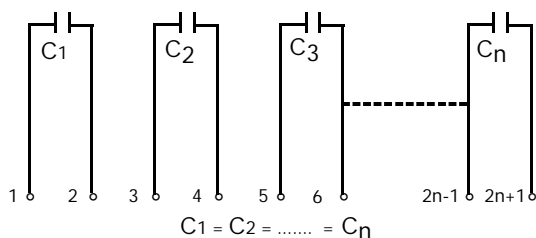


Circuits Construction

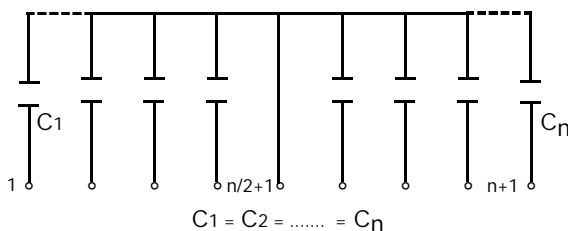
A Style



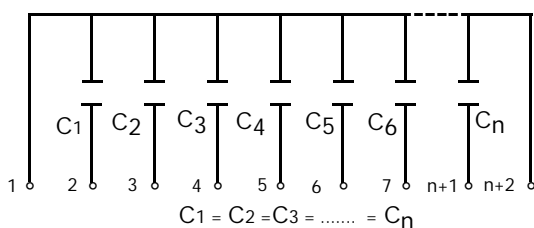
B Style



C Style



T Style



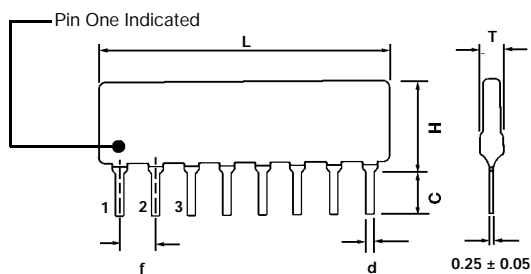
Rating

E-12 Series Capacitance Range	CNS	CNL
	10pf-.15μF	
T.C.R.	NPO, X7R, Z5U	
Capacitance Tol.	J, K, M, Z	
Rated Voltage (VDC)	25V, 50V, 100V	

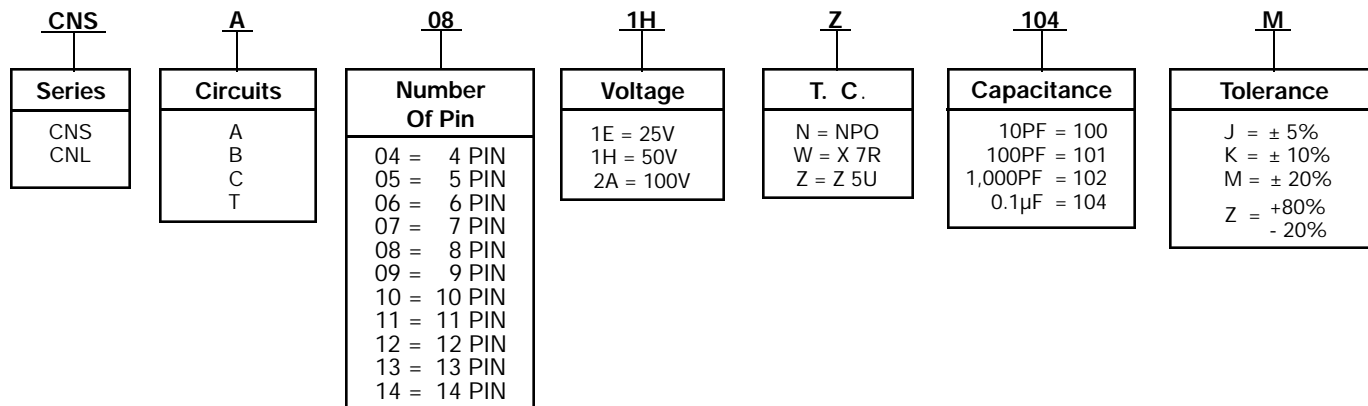
*For extended values please consult factory.

TYPE	L (MAX)	H (Max)		T (Max)	C ±0.5	d ±0.05	f ±0.2
		CNS	CNL				
4 Pin	10.2						
5 Pin	12.7						
6 Pin	15.3						
7 Pin	17.8	7.6	12.7	3.5	3.5	0.5	2.54
8 Pin	20.4						
9 Pin	22.9						
10 Pin	25.4						
11 Pin	28.0						
12 Pin	30.5						
13 Pin	33.1						
14 Pin	35.6						

Dimension: mm



Part Numbering System

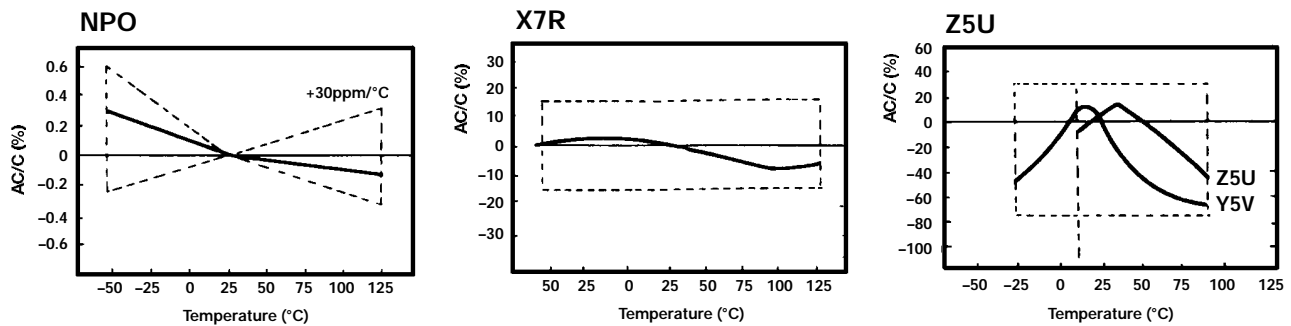


Capacitor Networks

Specifications

ITEM \ TC	NPO	X7R	Z5U
Temperature Coefficient	0 ± 30ppm/°C - 55°C ~ + 125°C	± 15% - 55°C ~ + 125°C	+ 22%, - 56% + 10°C ~ + 85°C
Capacitance Test 25°C	1 Vrms Max. at 1KHz (1 MHz for 100pF or less)	1Vrms Max. at 1KHz	1 Vrms Max. at 1KHz
Dissipation Factor 25°C	0.15% Max. at 1KHz, 1VRMS (1MHz for 100pF or less)	2.5% max. at 1KHz, 1Vrms Max.	5% Max at 1KHz, 1 Vrms Max.
Dielectric Strength 25°C	300% rated voltage For 5 Sec 50 mA.Max.	250% rated voltage for 5 Sec. with 50mA. Max. charging	
Life Test (1000 hours)	±3% at 200% rated voltage, 125°C	± 12.5% at 200% rated voltage, 125°C	± 30% at 200% rated voltage, 85°C
Insulation Resistance 25°C	100G or 1000M - MFD whichever is less		10G or 100M MFD whichever is less

Typical Temperature Characteristics Curves



Capacitance Range

Temperature Coefficient	Type	Capacitance Range	Tolerance
NPO	CNS	10pF - 1,000pF	J = ± 5% K = ±10%
X7R	CNS CNL	220pF - 0.022µF 0.047µF - 0.22µF	K = ± 10% M = ± 20%
Z5U	CNS CNL	0.01µF - 0.15µF 0.1µF - 1µF	M = ± 20%, Z = + 80/ - 20%