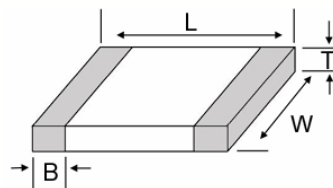


Data Sheet – Ultra High Frequency S Series



- Ultra High Frequency
- Low ESR at ultra high frequencies
- High Q at ultra high frequencies
- Highly Reliable Performance
- Self Resonant Frequency up to 26GHz



Excellent for :

RF, Microwave, Wireless, GPS
Mobile Communication Applications

Material / Properties	NPO			
Case Size	0201	0402	0603	0805
Length (L), inch, (mm)	0.024 ± 0.002 (0.6 ± 0.06)	0.040 ± 0.004 (1.02 ± 0.1)	0.063 ± 0.006 (1.6 ± 0.15)	0.080 ± 0.008 (2.03 ± 0.20)
Width (W), inch, (mm)	0.012 ± 0.001 (0.3 ± 0.03)	0.020 ± 0.004 (0.51 ± 0.1)	0.032 ± 0.006 (0.8 ± 0.15)	0.050 ± 0.008 (1.27 ± 0.20)
Thickness (T), inch, (mm)	0.012 ± 0.001 (0.3 ± 0.03)	0.020 ± 0.004 (0.51 ± 0.1)	0.032 ± 0.006 (0.8 ± 0.15) 0.028 ± 0.006 (0.7 ± 0.15)	0.030 ± 0.006 (0.77 ± 0.15)
Termination Band Width (B), inch, (mm)	0.004 ~ 0.008 (0.15 ~ 0.3)	0.006 ~ 0.012 (0.15 ~ 0.3)	0.009 ~ 0.018 (0.27 ~ 0.45)	0.009 ~ 0.020 (0.27 ~ 0.50)
Capacitance Range	0.2 pF ~ 20 pF	0.2 pF ~ 33 pF	0.2pF ~ 100pF	0.5pF ~ 220pF
ESR @ 1 GHz	0.200 Ω max. for >1pF			
@ 2 GHz	0.250 Ω max. for >1pF			
Temperature Range	-55°C ~ +125°C			
TCC	0 ± 30 PPM/°C			
Dissipation Factor	5 x 10 ⁻⁴ max @ 1 MHz			
Q Factor @ 1 MHz	> 2,500			
Q Factor @ 1 GHz	>300 (3pF), >100 (10pF)			
Q Factor @ 2 GHz	>100 (3pF), >30 (10pF)			
IR	> 1000GΩ WVDC			
Rated Voltage (RV)	25V	100V/250V	250V	250V
Diele. Breakdown Withstanding voltage	2.5 X WVDC Min., 25°C, 50 mA max			

HIGH Q

Typical Series Resonant Frequency of aec UHF S Series NPO

