

Reactance, Complex Impedance, Passive Filter Answer Sheet

Reactance Quiz

A. Resistive

B. Short Circuit

C. Short Circuit

D. Short Circuit

E. Short Circuit

F. Resistive

G. Short Circuit

H. Short Circuit

Complex Impedance Quiz

A. $R + \frac{X_C X_L}{X_C + X_L}$

B. $X_L + \frac{R X_C}{R + X_C}$

C. $X_C + \frac{R X_L}{R + X_L}$

D. $R + X_C + X_L$

E. $\frac{R(X_C + X_L)}{R + X_C + X_L}$

F. $\frac{X_L(R + X_C)}{R + X_C + X_L}$

G. $\frac{X_C(R + X_L)}{R + X_C + X_L}$

H. $\frac{1}{Z} = \frac{1}{R} + \frac{1}{X_C} + \frac{1}{X_L} = \frac{X_C X_L + R X_L + R X_C}{R X_C X_L}$

$Z = \frac{R X_C X_L}{R X_C + R X_L + X_C X_L}$

Passive Filter Quiz

A. Low Pass

B. High Pass

C. High Pass

D. Low Pass