

MicroStrip Low Pass Filter 1296MHz - VK4FLR



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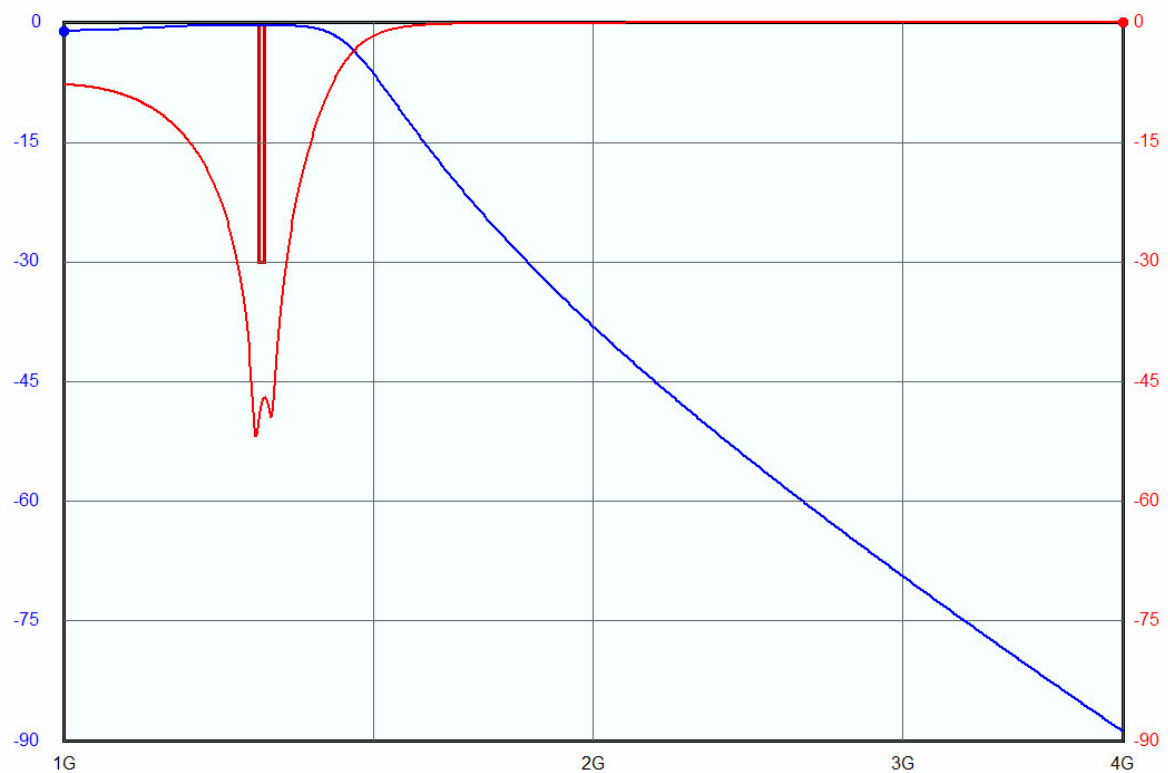
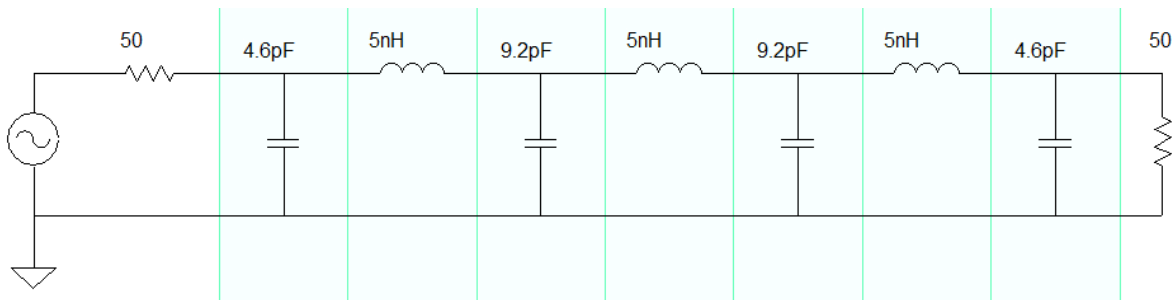
LPF 1.296GHz

Larcan 1.6mm Teflon PCB

Elsie

From Elsie		Z	Deg	W mm	L mm	
4.6	pF	141.0	15.8	0.6	7.9	7.9
5.0	nH	10.3	14.5	36	6.6	14.5
9.2	pF	141.0	36.8	0.6	18.4	32.9
5.0	nH	10.3	17.8	36	8.1	41
9.2	pF	141.0	38.9	0.6	19.5	60.5
5.0	nH	10.3	17.8	36	8.1	68.6
9.2	pF	141.0	36.8	0.6	18.4	87
5.0	nH	10.3	14.5	36	6.6	93.6
4.6	pF	141.0	15.8	0.6	7.9	101.5

Total 101.5 mm



Elsie V2.0 © 2017 James L. Tonne www.TonneSoftware.com

MicroStrip Low Pass Filter 1296MHz - VK4FLR

TXLINE 2003 - Microstrip

Microstrip | Stripline | CPW | CPW Ground | Round Coaxial | Slotline | Coupled MSLine | Coupled Stripline

Material Parameters:

Dielectric: Air | Conductor: Copper

Dielectric Constant: 2.1 | Conductivity: 5.88E+07 S/m

Loss Tangent: 0

Electrical Characteristics:

Impedance: 141 Ohms

Frequency: 1.296 GHz

Electrical Length: 15.8 deg

Phase Constant: 1990.38 deg/m

Effective Diel. Const.: 1.63569

Loss: 0.790967 dB/m

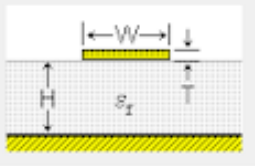
Physical Characteristic:

Physical Length (L): 7.93816 mm

Width (w): 0.270715 mm

Height (H): 0.8 mm

Thickness (T): 0.03 mm



TXLINE 2003 - Microstrip

Microstrip | Stripline | CPW | CPW Ground | Round Coaxial | Slotline | Coupled MSLine | Coupled Stripline

Material Parameters:

Dielectric: Air | Conductor: Copper

Dielectric Constant: 2.1 | Conductivity: 5.88E+07 S/m

Loss Tangent: 0

Electrical Characteristics:

Impedance: 10.3 Ohms

Frequency: 1.296 GHz

Electrical Length: 14.5 deg

Phase Constant: 2203.86 deg/m

Effective Diel. Const.: 2.00537

Loss: 0.373631 dB/m

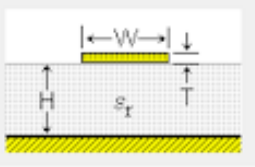
Physical Characteristic:

Physical Length (L): 6.57937 mm

Width (w): 17.9686 mm

Height (H): 0.8 mm

Thickness (T): 0.03 mm



Warning #1 -> (W/H) Recommended <= 20

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TXLINE 2003 - Microstrip

Microstrip | Stripline | CPW | CPW Ground | Round Coaxial | Slotline | Coupled MSLine | Coupled Stripline

Material Parameters

Dielectric: Air | Conductor: Copper

Dielectric Constant: 2.1 | Conductivity: 5.88E+07 S/m

Loss Tangent: 0

Electrical Characteristics

Impedance: 141 Ohms

Frequency: 1.296 GHz

Electrical Length: 36.8 deg

Phase Constant: 1990.38 deg/m

Effective Diel. Const.: 1.63569

Loss: 0.790967 dB/m

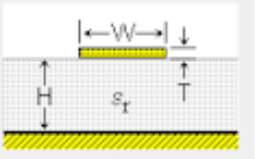
Physical Characteristic

Physical Length (L): 18.4889 mm

Width (W): 0.270715 mm

Height (H): 0.8 mm

Thickness (T): 0.03 mm



TXLINE 2003 - Microstrip

Microstrip | Stripline | CPW | CPW Ground | Round Coaxial | Slotline | Coupled MSLine | Coupled Stripline

Material Parameters

Dielectric: Air | Conductor: Copper

Dielectric Constant: 2.1 | Conductivity: 5.88E+07 S/m

Loss Tangent: 0

Electrical Characteristics

Impedance: 10.3 Ohms

Frequency: 1.296 GHz

Electrical Length: 17.8 deg

Phase Constant: 2203.86 deg/m

Effective Diel. Const.: 2.00537

Loss: 0.373631 dB/m

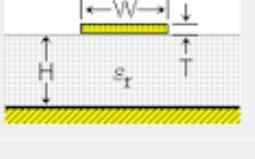
Physical Characteristic

Physical Length (L): 8.07674 mm

Width (W): 17.9686 mm

Height (H): 0.8 mm

Thickness (T): 0.03 mm



Warning #1 -> (W/H) Recommended <= 20

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TXLINE 2003 - Microstrip

Microstrip | Stripline | CPW | CPW Ground | Round Coaxial | Slotline | Coupled MSLine | Coupled Stripline

Material Parameters

Dielectric: Air | Conductor: Copper

Dielectric Constant: 2.1 | Conductivity: 5.88E+07 S/m

Loss Tangent: 0

AWR

Electrical Characteristics

Impedance: 141 Ohms

Frequency: 1.296 GHz

Electrical Length: 38.9 deg

Phase Constant: 1990.38 deg/m

Effective Diel. Const.: 1.63569

Loss: 0.790967 dB/m

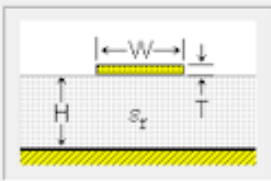
Physical Characteristic

Physical Length (L): 19.544 mm

Width (w): 0.270715 mm

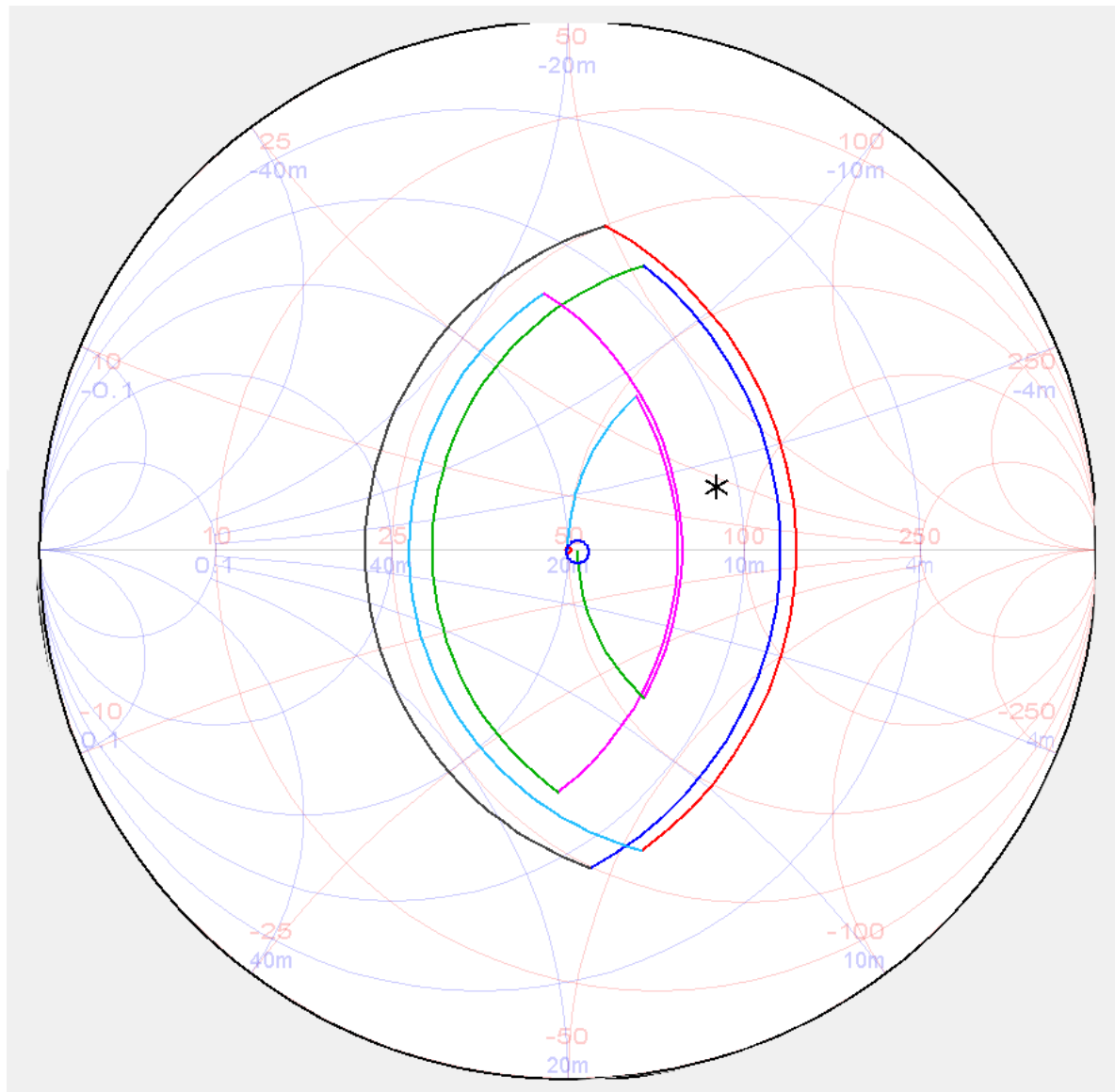
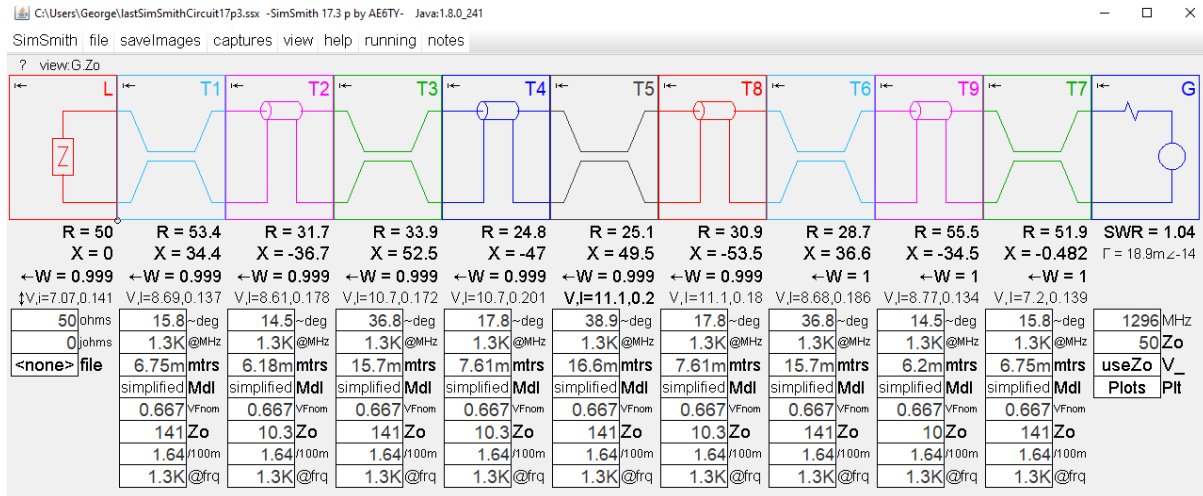
Height (H): 0.8 mm

Thickness (T): 0.03 mm



[TX-LINE | AWR Software](#)

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