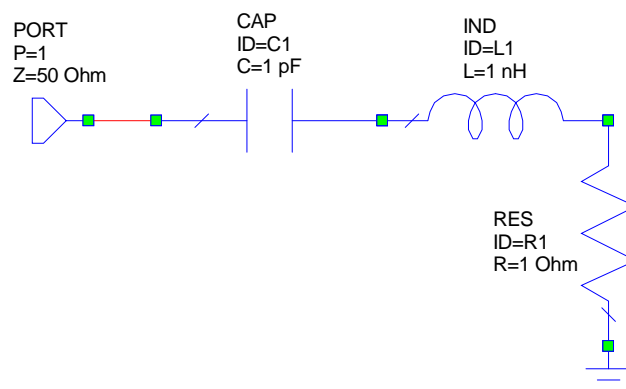


Studio di circuiti risonanti con MWO

Circuito risonante serie

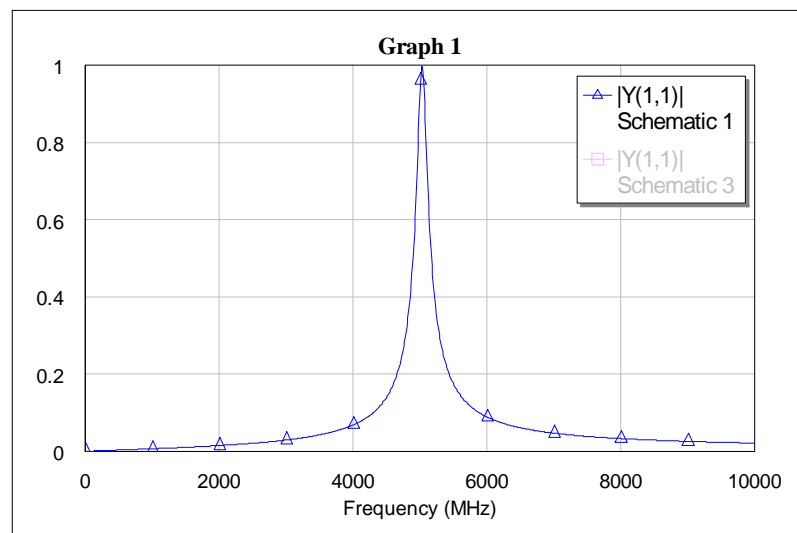


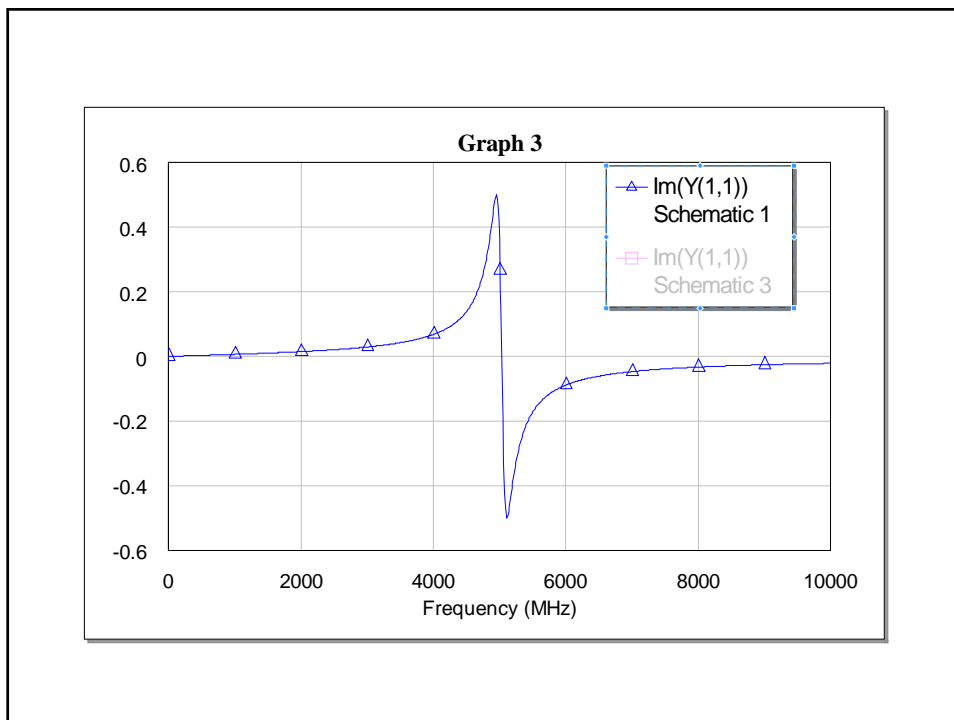
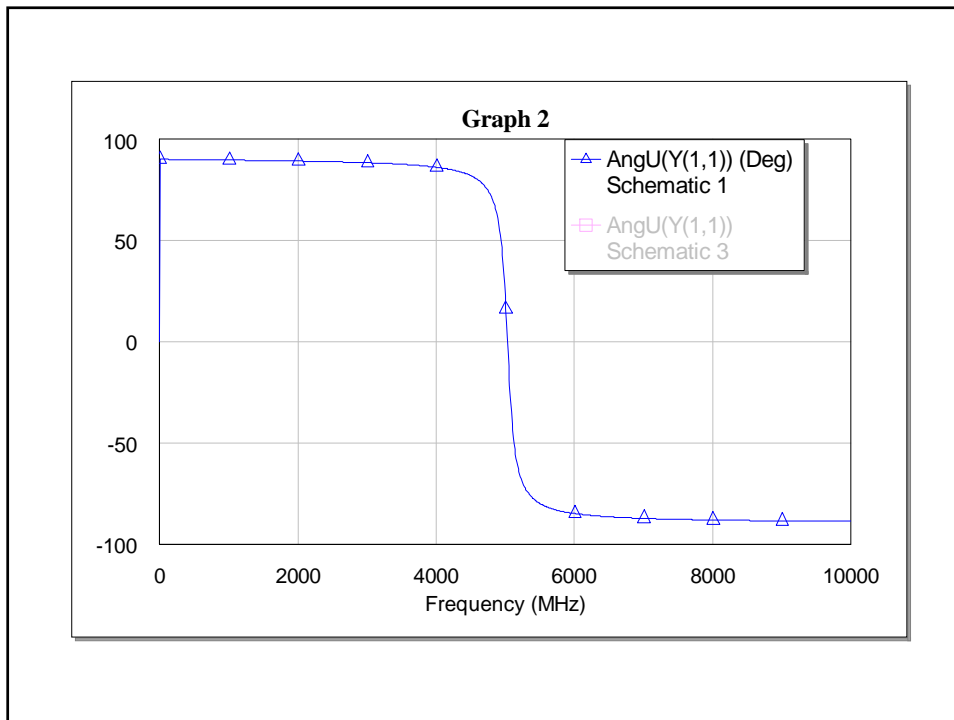
- $Y(\omega) = \frac{1}{R + j\omega L + \frac{1}{j\omega C}} \quad \omega_0^2 LC = 1$

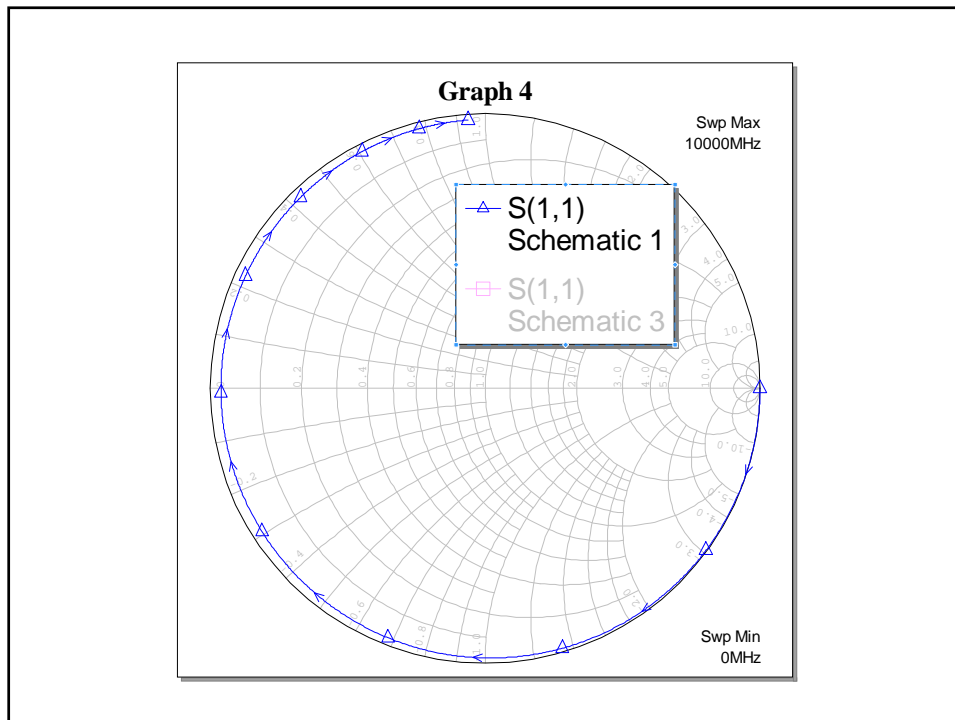
- Per $\omega = \omega_0 \quad Y(\omega_0) = \frac{1}{R}$

- Per $\omega \ll \omega_0 \quad \text{Im} [Y(\omega)] \approx \omega C$

- $L = 1 / C\omega_0^2$



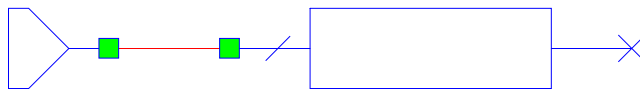


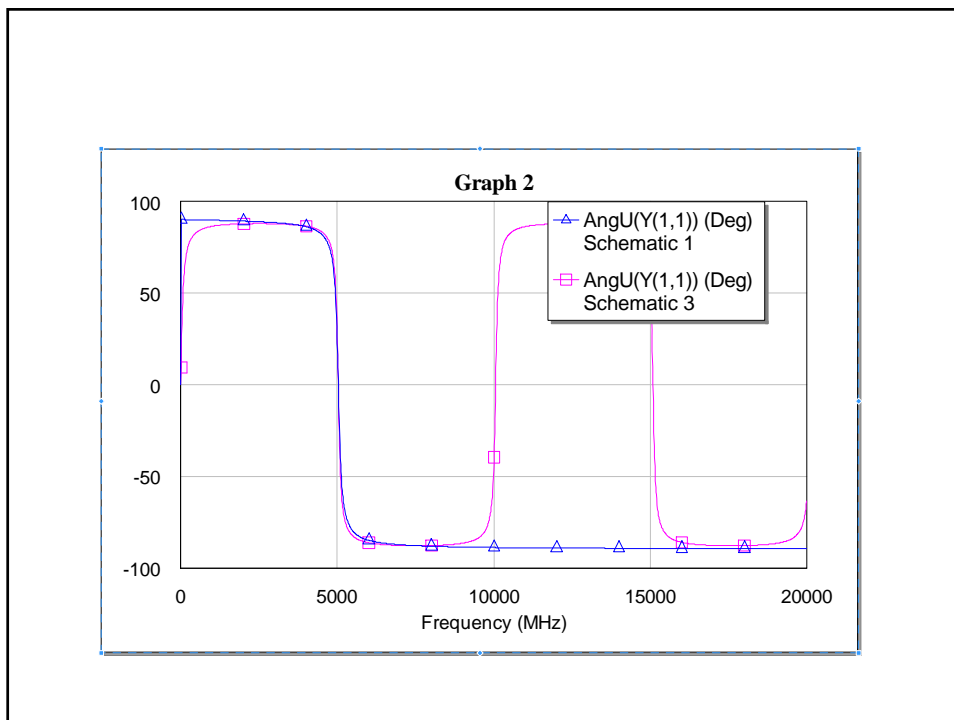
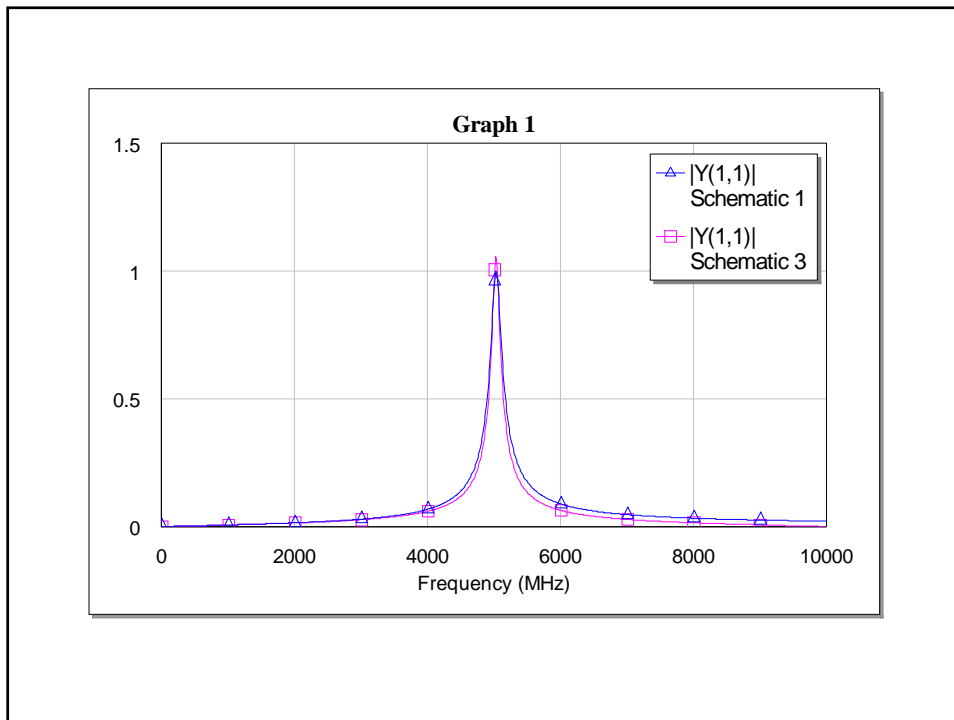


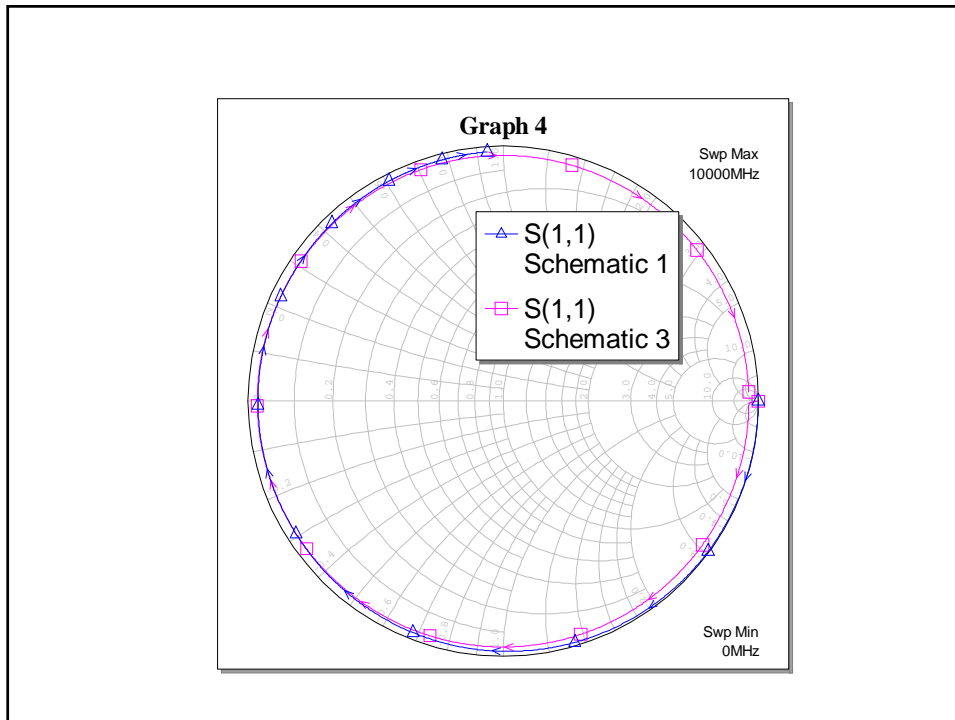
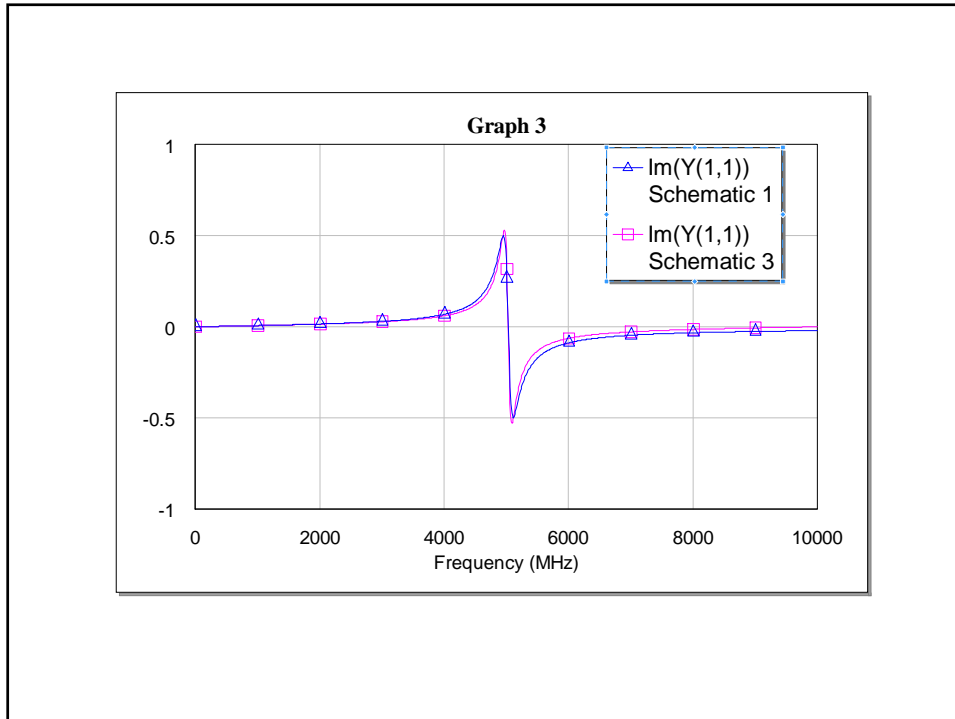
Linea con perdite aperta

PORT
P=1
Z=50 Ohm

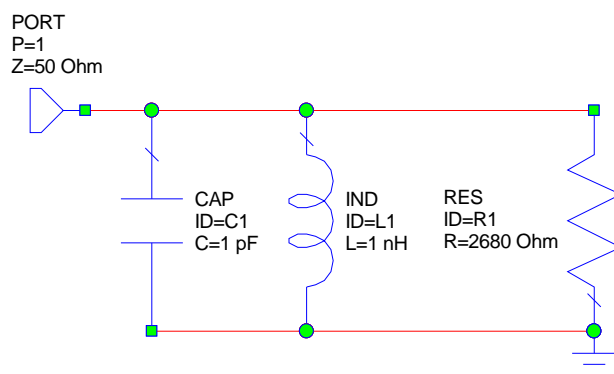
TLINP
ID=TL1
Z0=50 Ohm
L=14.9 mm
Eeff=1
Loss=11.01
F0=0 MHz







Circuito risonante parallelo



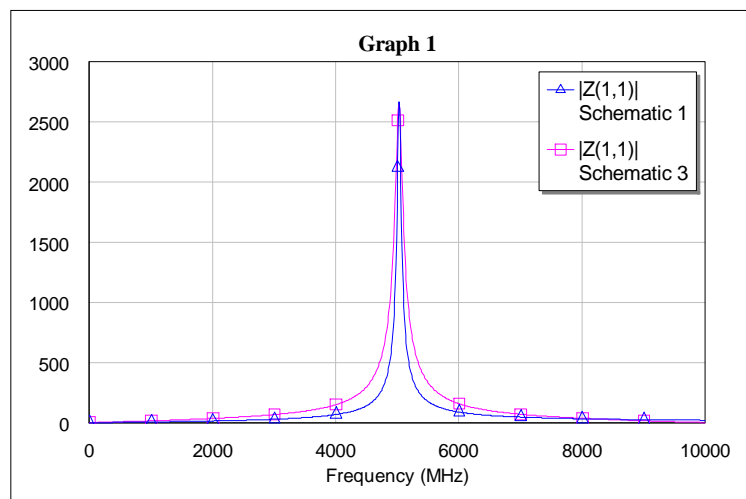
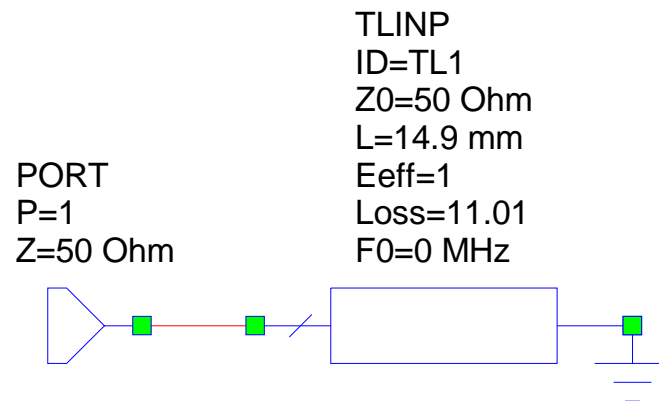
- $Z(\omega) = \frac{1}{G + j\omega C + \frac{1}{j\omega L}} \quad \omega_0^2 LC = 1$

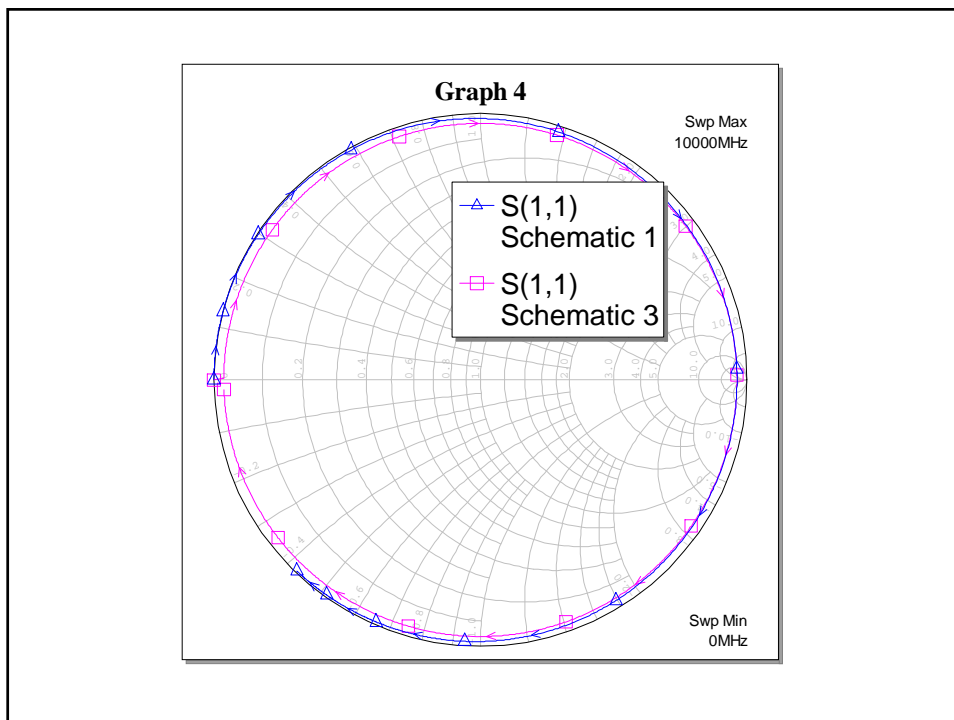
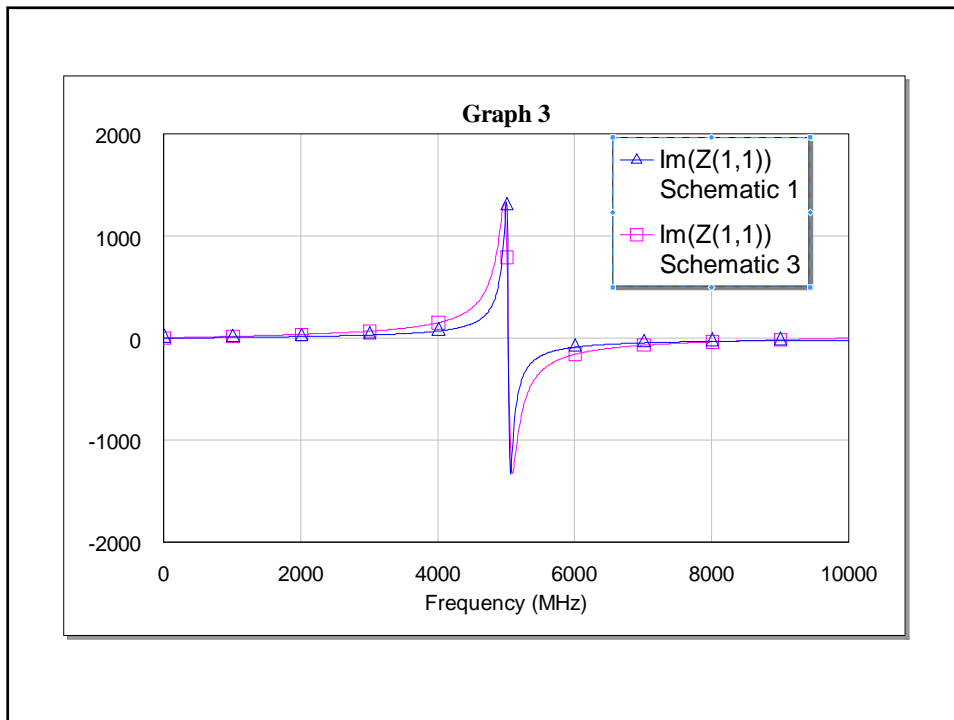
- Per $\omega = \omega_0 \quad Z(\omega_0) = R$


- Per $\omega \ll \omega_0 \quad \text{Im} [Z(\omega)] \approx \omega L$


- $C = 1 / L\omega_0^2$

Linea con perdite in corto





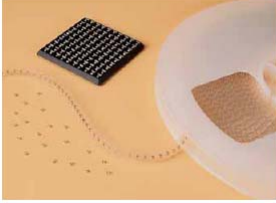

AMERICAN TECHNICAL CERAMICS
 ATC North America +1-631-622-4700 sales@atceramics.com
 ATC Europe +46 8 6800410 sales@atceramics-europe.com
 ATC Asia +86-755-2386-8759 sales@atceramics-asia.com
www.atceramics.com


 IHE ENGINEERS' CHOICE®
 ISO 9001 REGISTERED
ATC # 001-808 Pak. K 708

ATC 100 A Series Porcelain Superchip® Multilayer Capacitors

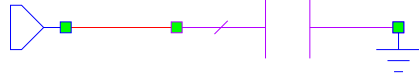
- Case A Size (.055" x .055")
- High Q

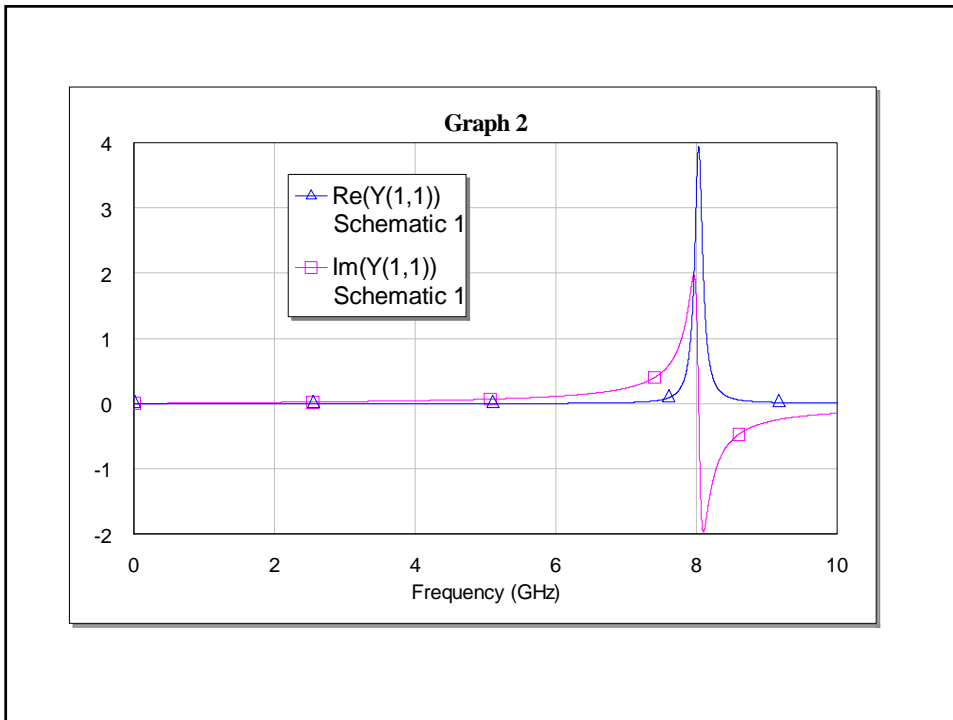
- Capacitance Range 0.1 pF to 100 pF
- Ultra-Stable Performance

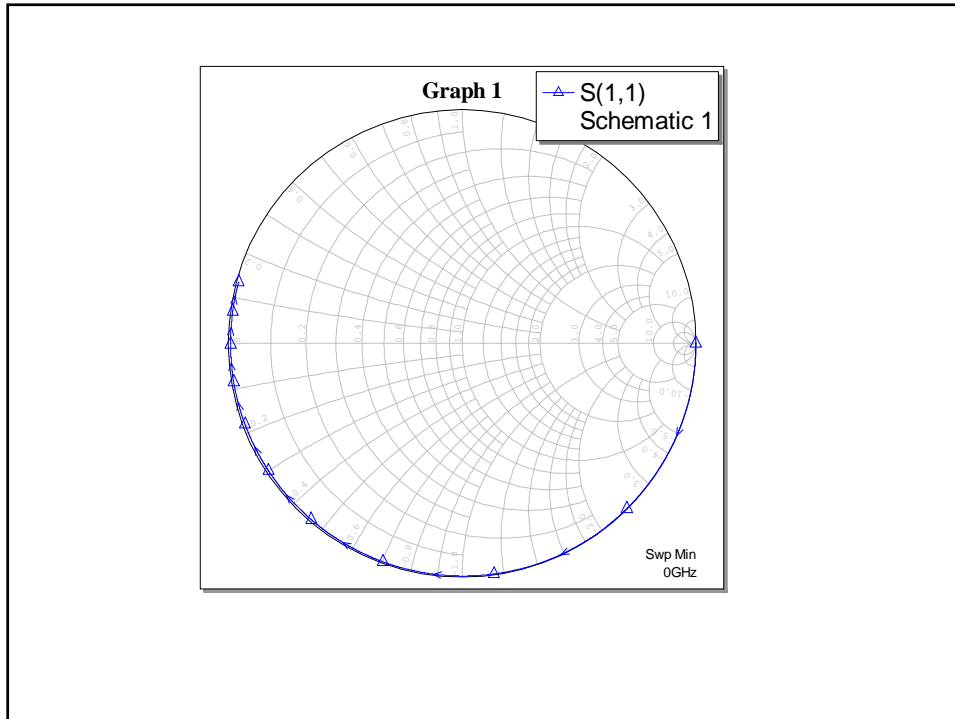



CHIPCAP
ID=C1
C=1.3 pF
Q=964.8
FQ=0.5 GHz
FR=8.0299 GHz
ALPH=-1

PORT
P=1
Z=50 Ohm










www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
 UK +44-1235-732595 sales@coilcraft-europe.com
 Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
 China +86-21-6218 8074 sales@coilcraft.com.cn
 Singapore + 65-6484 8412 sales@coilcraft.com.sg

Document 197-1 Revised 11/16/10
 © Coilcraft Inc. 2013
 This product may not be used in medical or high
 risk applications without prior Coilcraft approval.
 Specification subject to change without notice.
 Please check web site for latest information.



Chip Inductors- 0805HQ (2012)

<p>PORT P=1 Z=50 Ohm</p>	<p>CCIND ID=L2 R1=11 Ohm R2=0.12 Ohm C=0.116 pF L=51 nH K=8.8e-5</p>
----------------------------------	--

