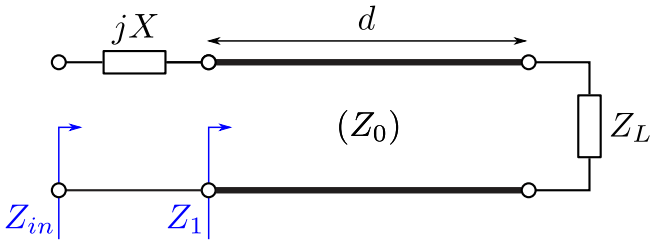
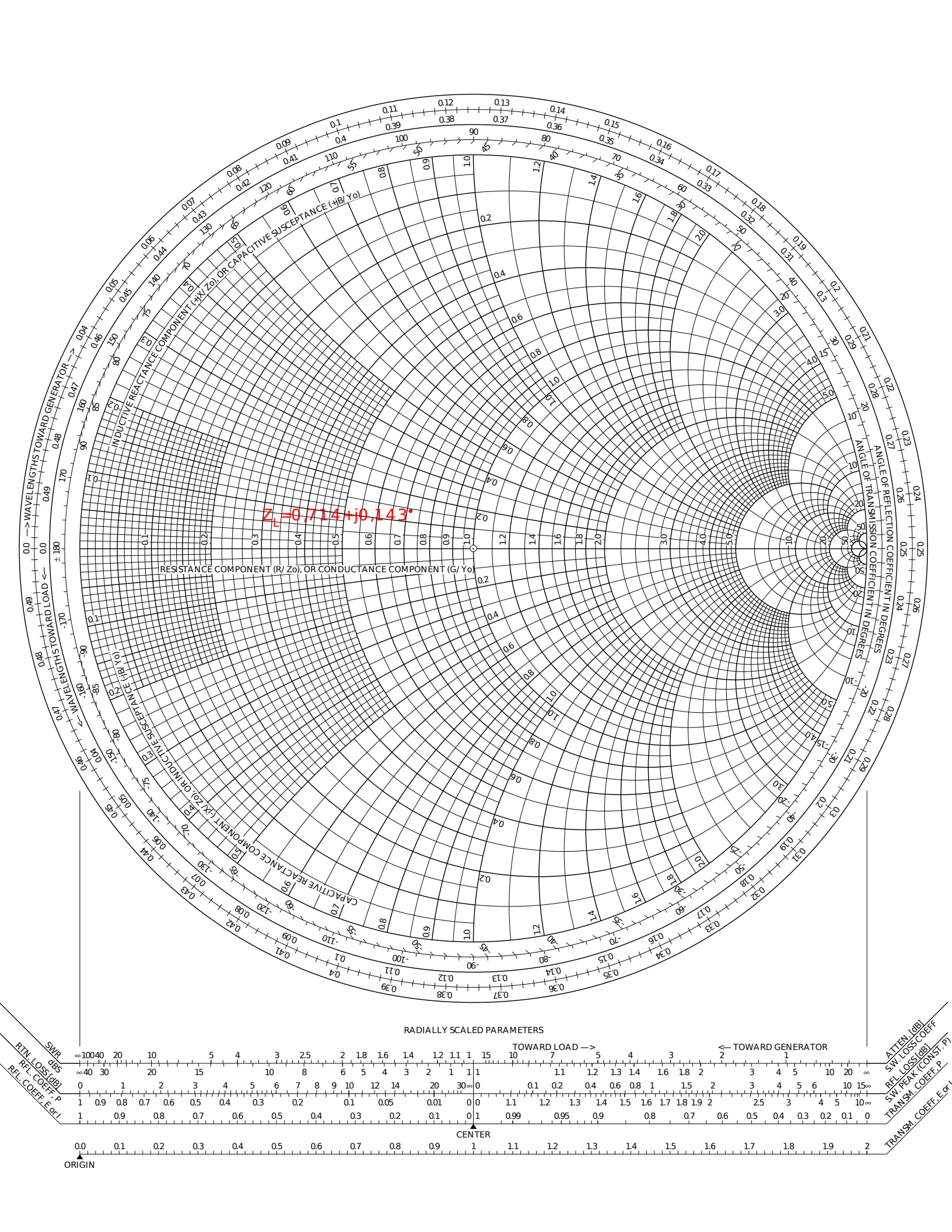
Red de adaptación simple

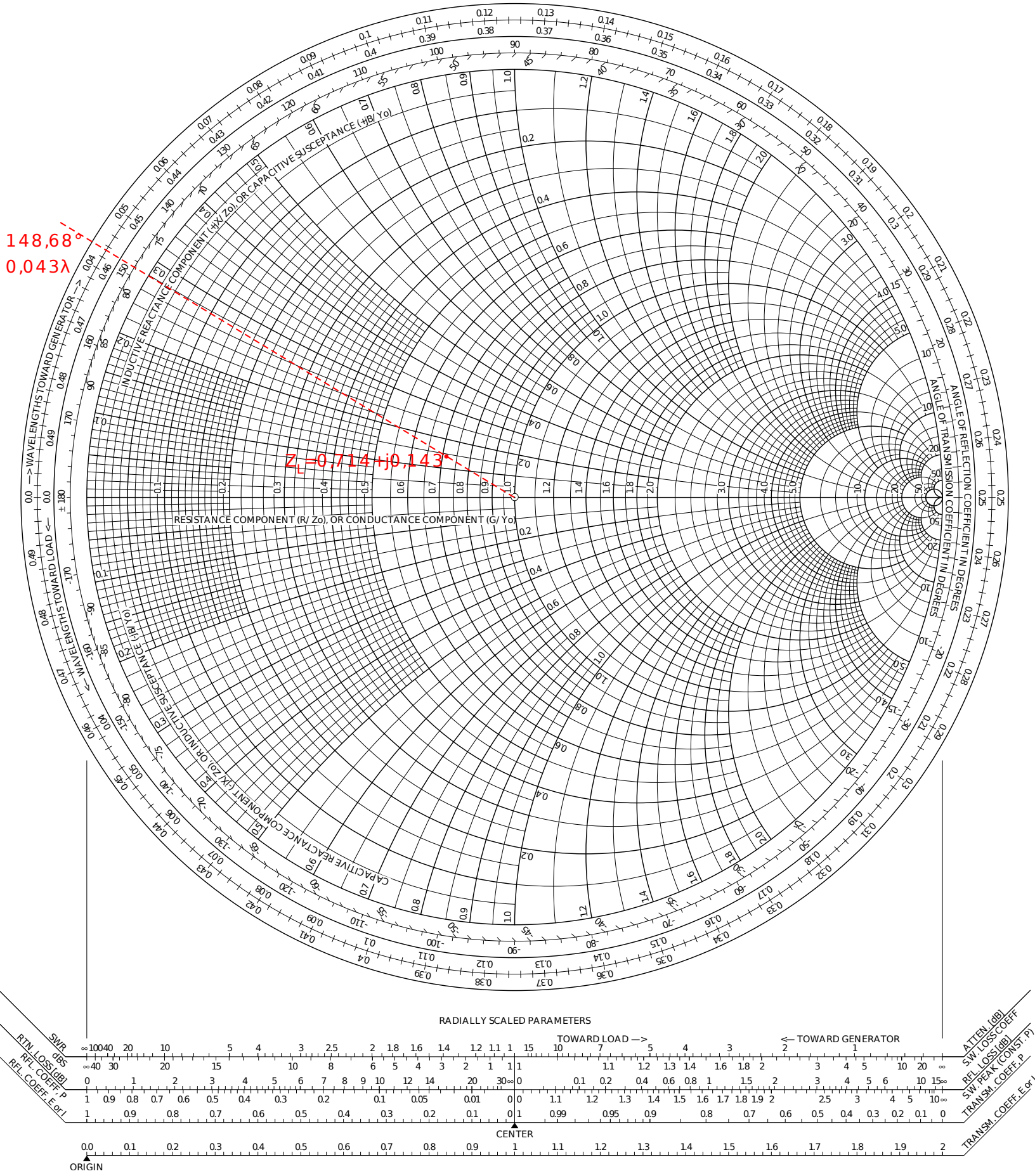
Calcular d y jX para obtener adaptación a la entrada ($Z_{in} = Z_0$).

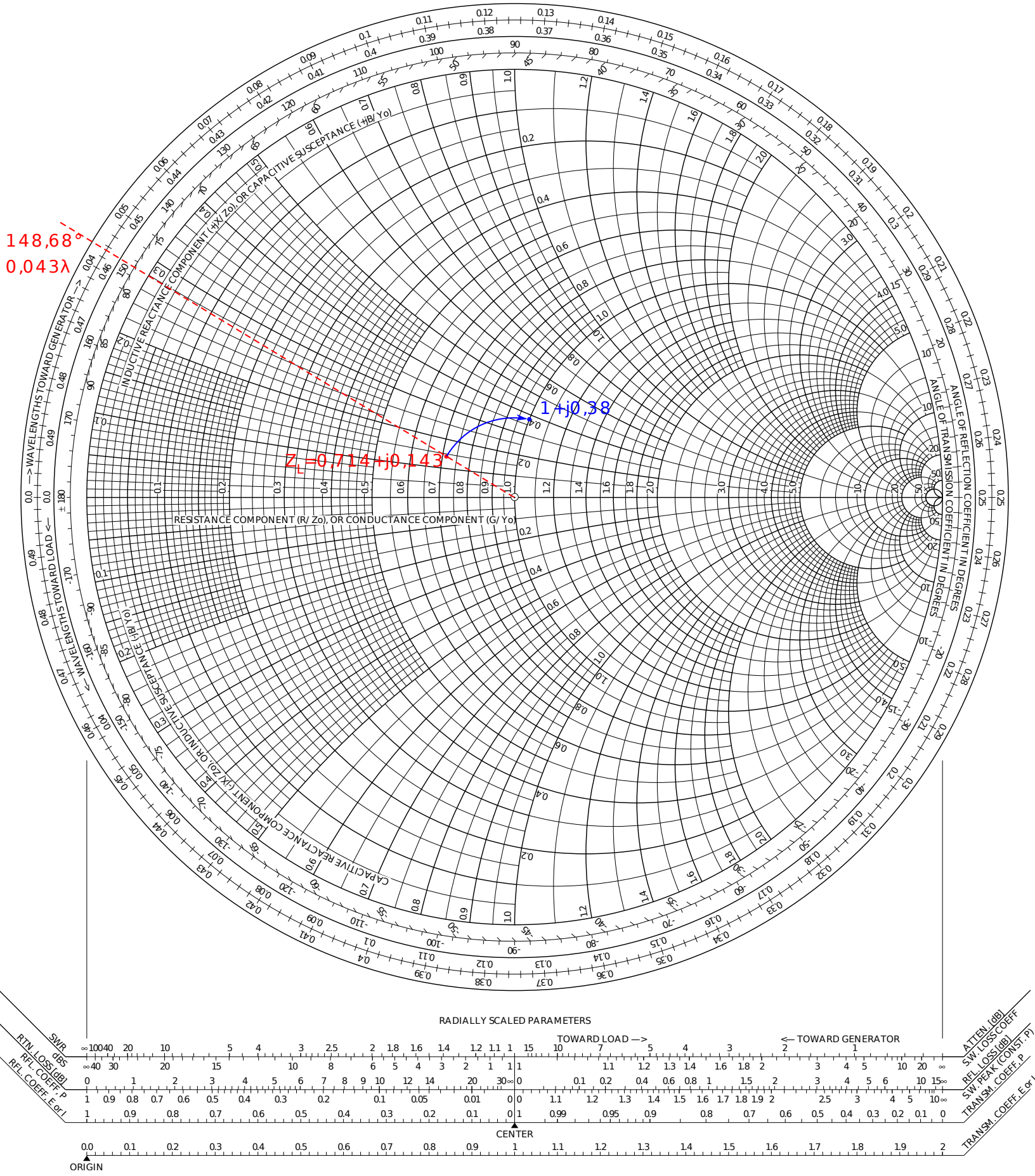


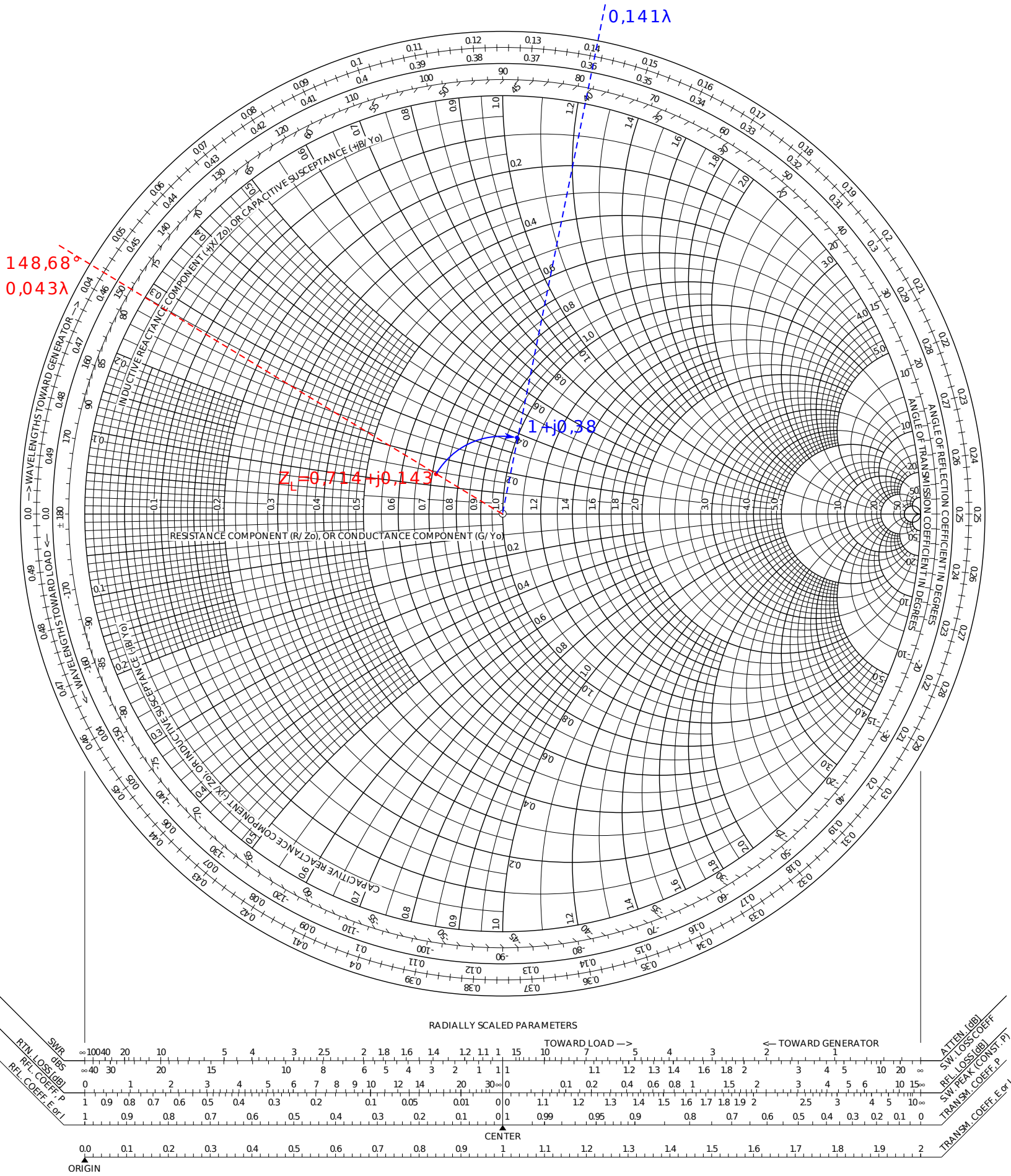
Especificaciones:

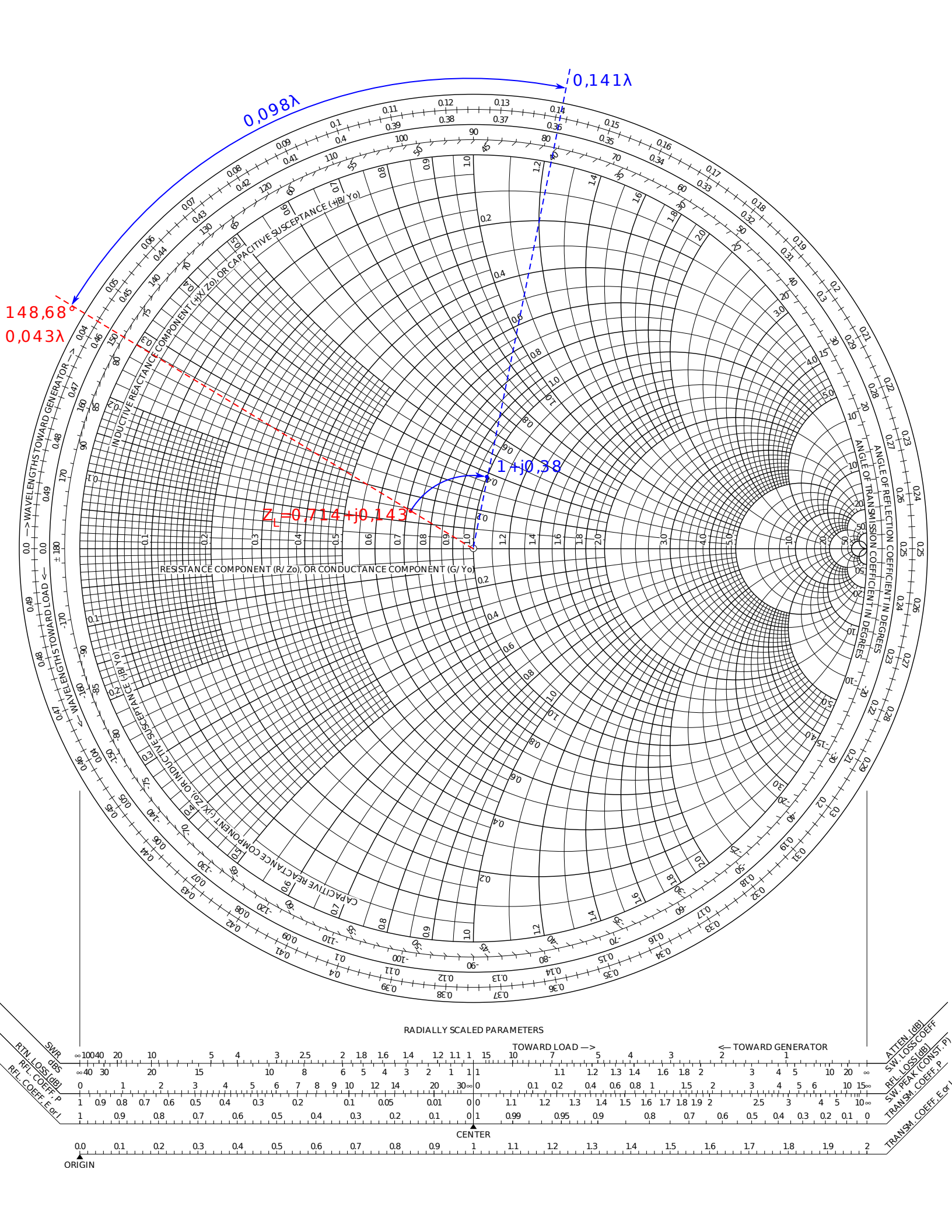
- $Z_0 = 70\ \Omega$
- $Z_L = 50 + j10\ \Omega$


Z_L=0,714+j0,143°
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
ANGLE OF REFLECTION COEFFICIENT IN DEGREES
ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
—> WAVELENGTHS TOWARD GENERATOR —>
<— WAVELENGTHS TOWARD LOAD <—
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
dBS
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS COEFF
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN


148,68°
0,043λ
Z_L=0,714+j0,143
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
—> WAVELENGTHS TOWARD GENERATOR —>
<— WAVELENGTHS TOWARD LOAD <—
ANGLE OF REFLECTION COEFFICIENT IN DEGREES
ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS COEFF
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN


148,68°
0,043λ
1+j0,38
Z_L=0,714+j0,143
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
ANGLE OF REFLECTION COEFFICIENT IN DEGREES
ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
—> WAVELENGTHS TOWARD GENERATOR —>
<— WAVELENGTHS TOWARD LOAD <—
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS COEFF
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN


0,141λ
148,68°
0,043λ
1+j0,38
Z_L=0,714+j0,143
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
—> WAVELENGTHS TOWARD GENERATOR —>
<— WAVELENGTHS TOWARD LOAD <—
ANGLE OF REFLECTION COEFFICIENT IN DEGREES
ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS COEFF
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN


0,141λ
0,098λ
148,68°
0,043λ
1+j0,38
Z_L=0,714+j0,143
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
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WAVELENGTHS TOWARD LOAD <—
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ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
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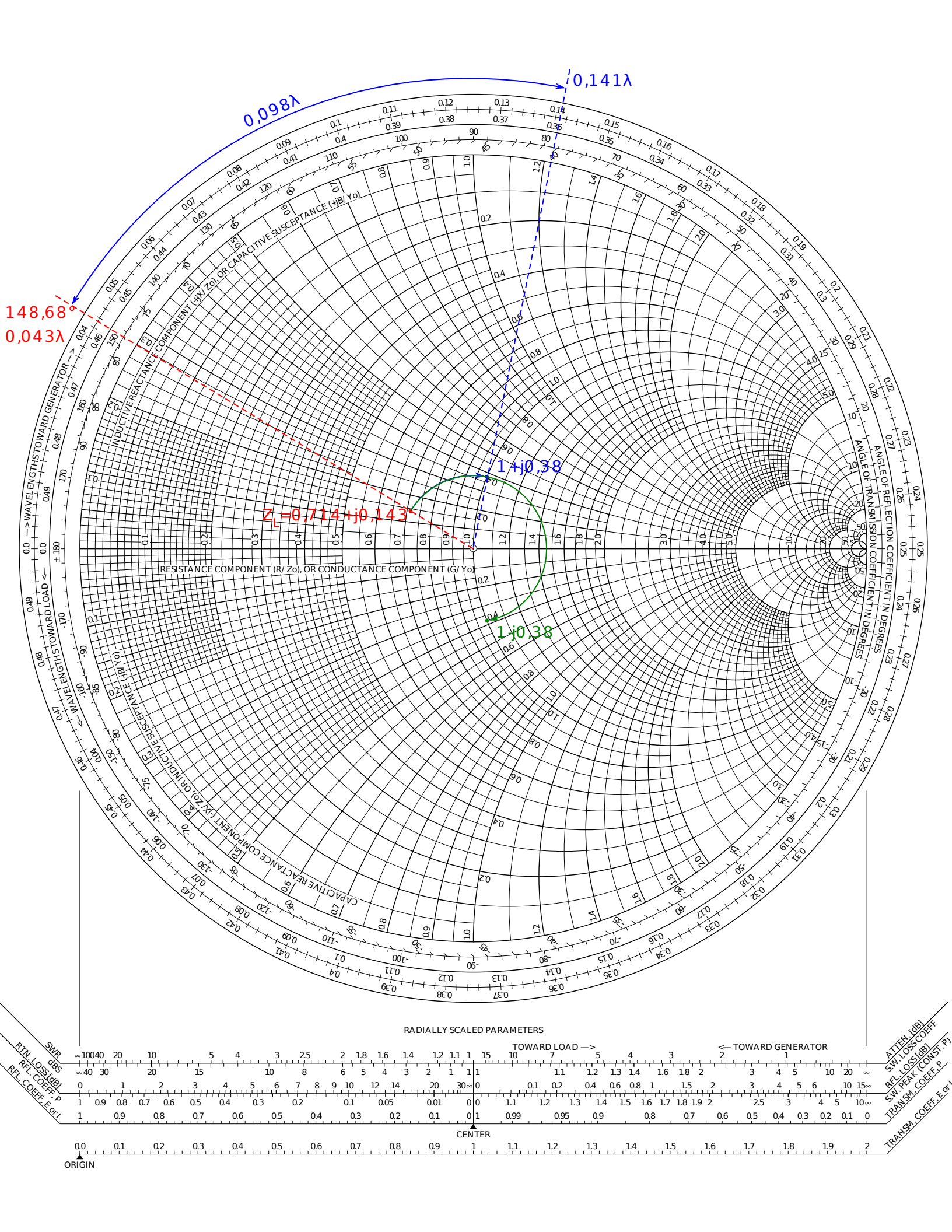
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS COEFF
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN


0,141λ
0,098λ
148,68°
0,043λ
1+j0,38
1-j0,38
Z_L=0,714+j0,143
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
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RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
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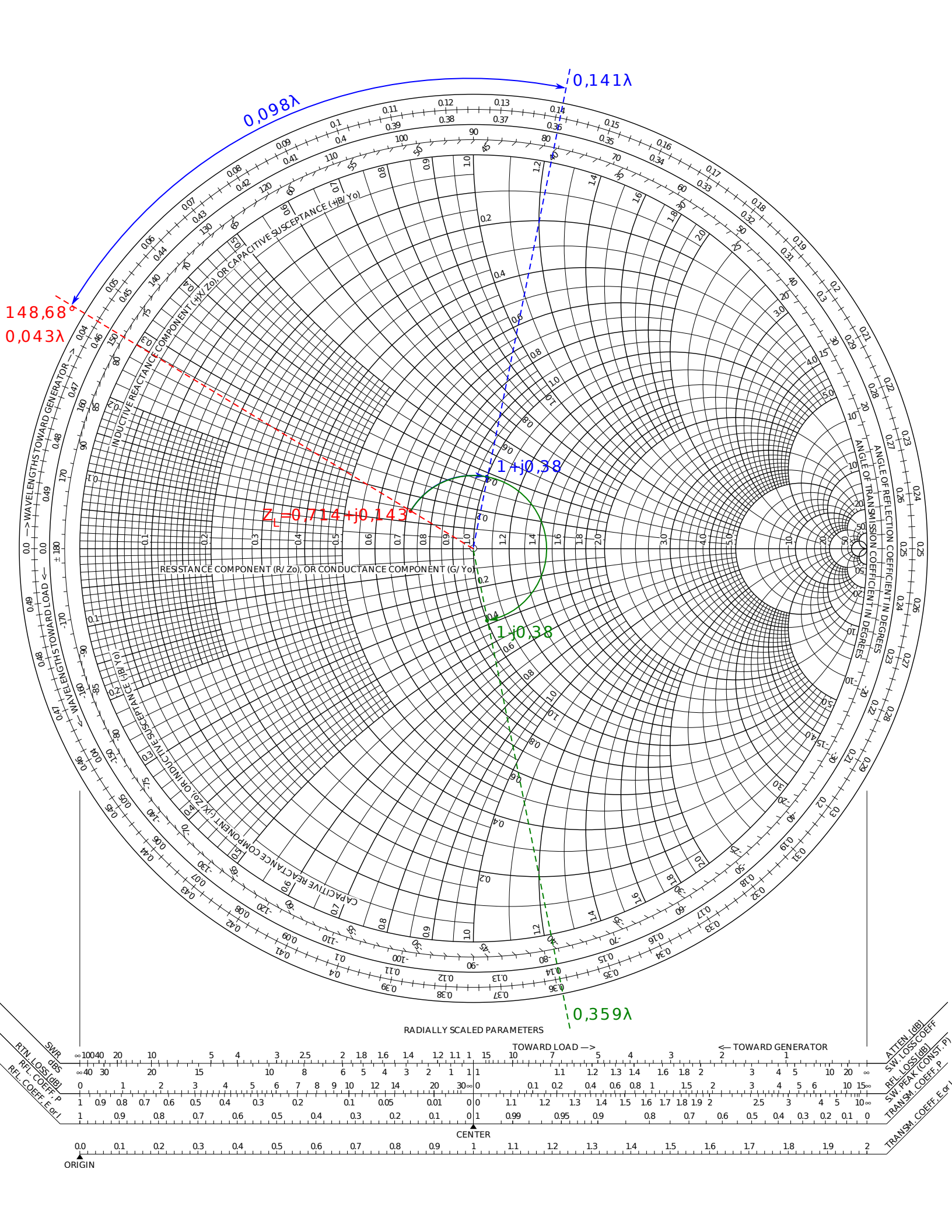
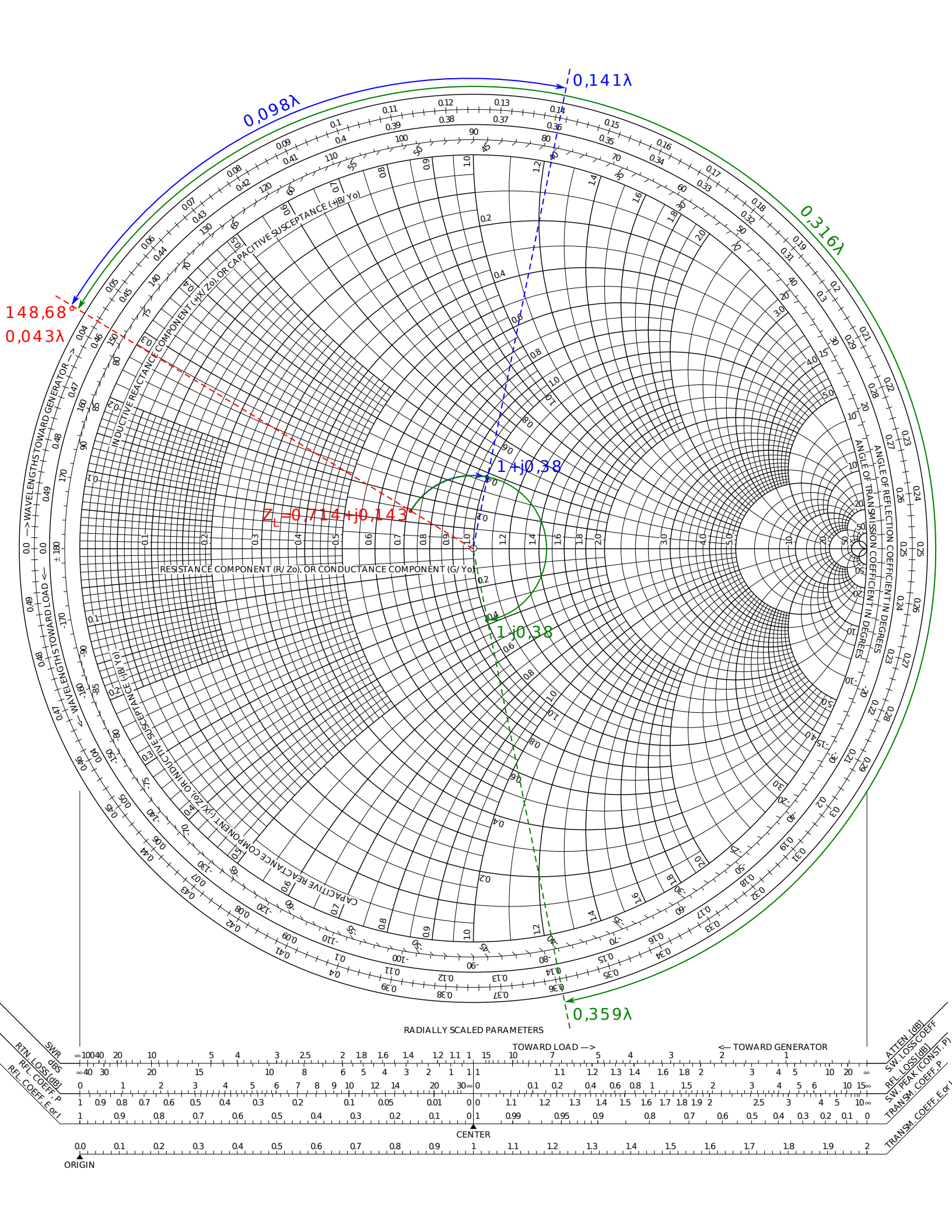
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS COEFF
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN


0,141λ
0,098λ
148,68°
0,043λ
1+j0,38
1-j0,38
Z_L=0,714+j0,143
0,359λ
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
ANGLE OF REFLECTION COEFFICIENT IN DEGREES
ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
WAVELENGTHS TOWARD GENERATOR —>
WAVELENGTHS TOWARD LOAD <—
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS COEFF
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN


0,141λ
0,098λ
0,316λ
148,68°
0,043λ
1+j0,38
Z_L=0,714+j0,143
1-j0,38
0,359λ
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
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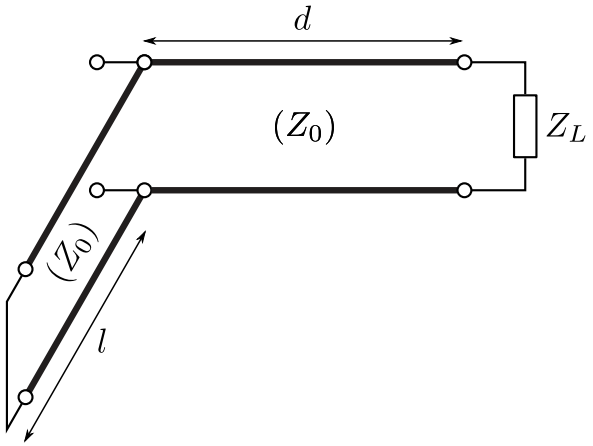
<— WAVELENGTHS TOWARD LOAD
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS COEFF
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN

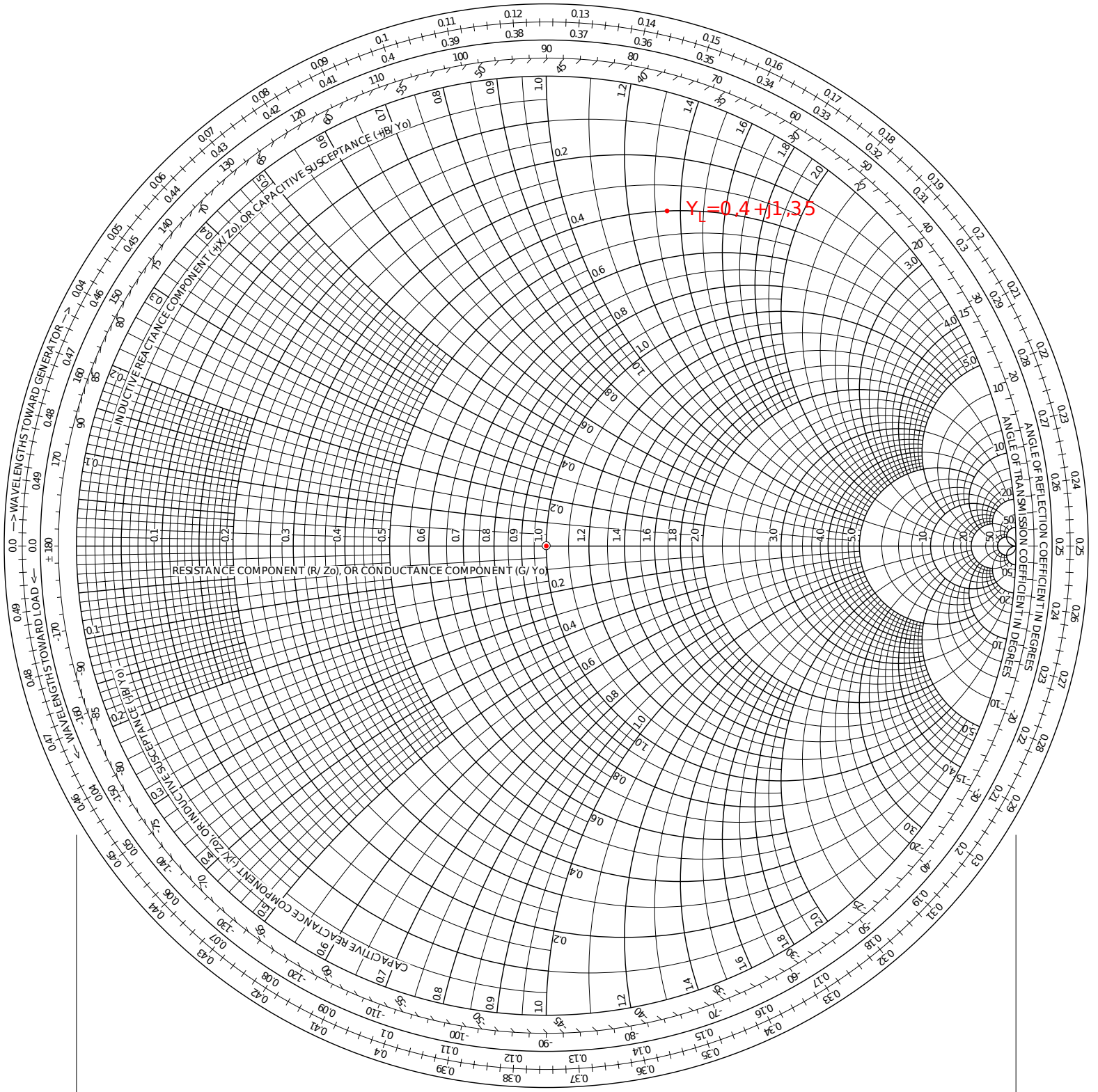
Red de adaptación con un único stub

Calcular d y l para obtener adaptación a la entrada ($Z_{in} = Z_0$).



Especificaciones:

- $Z_0/Z_L = Y_L/Y_0 = 0.4 + j1.35$

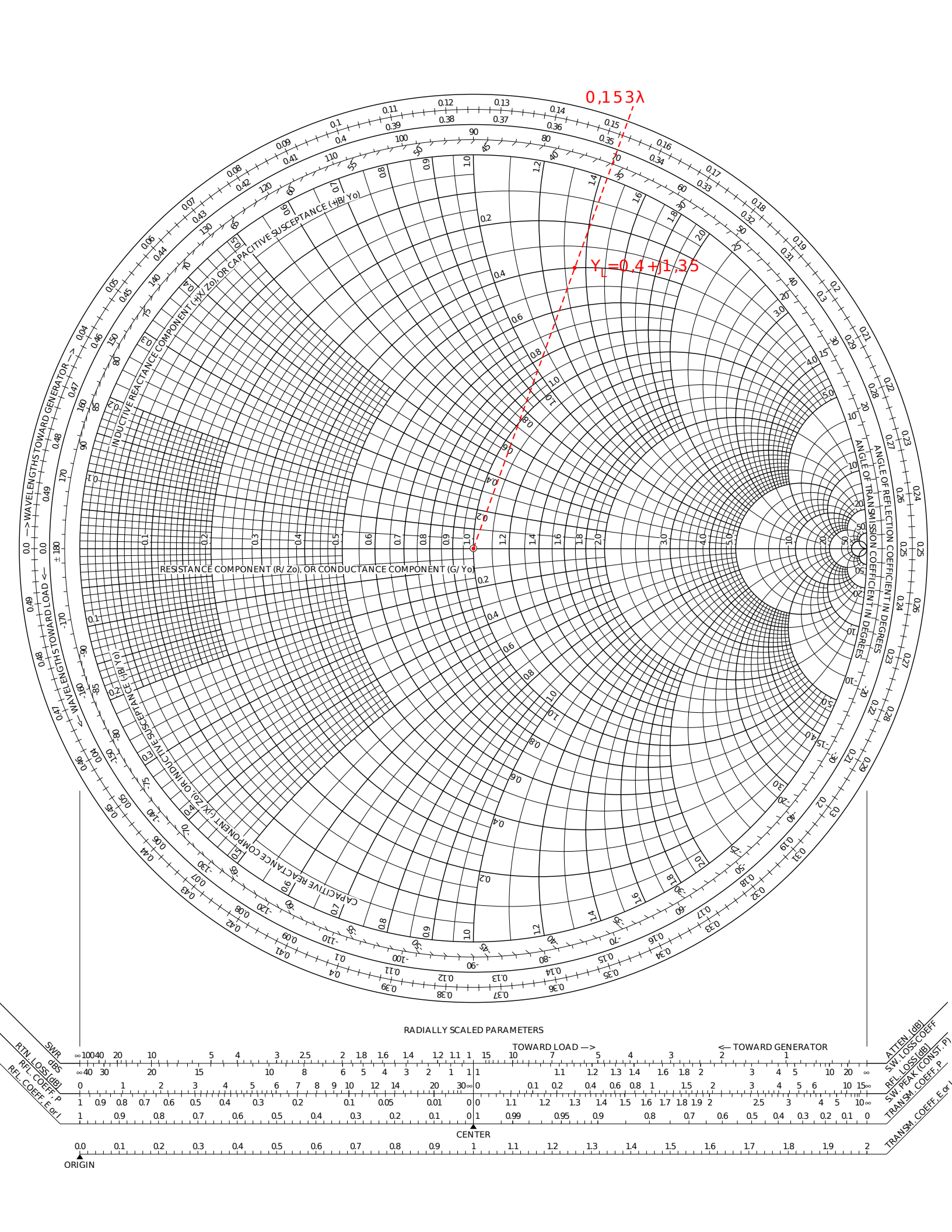


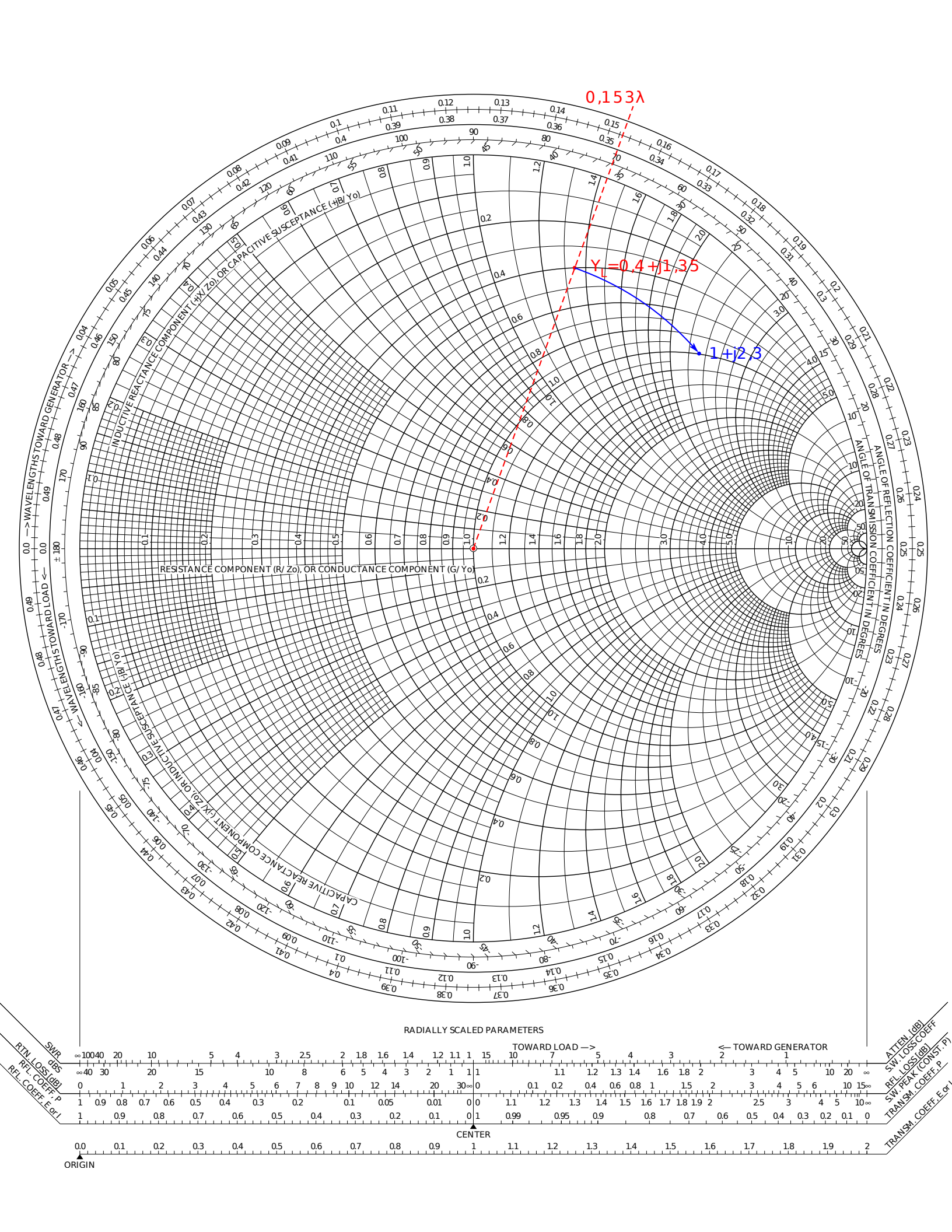
RADIALLY SCALED PARAMETERS

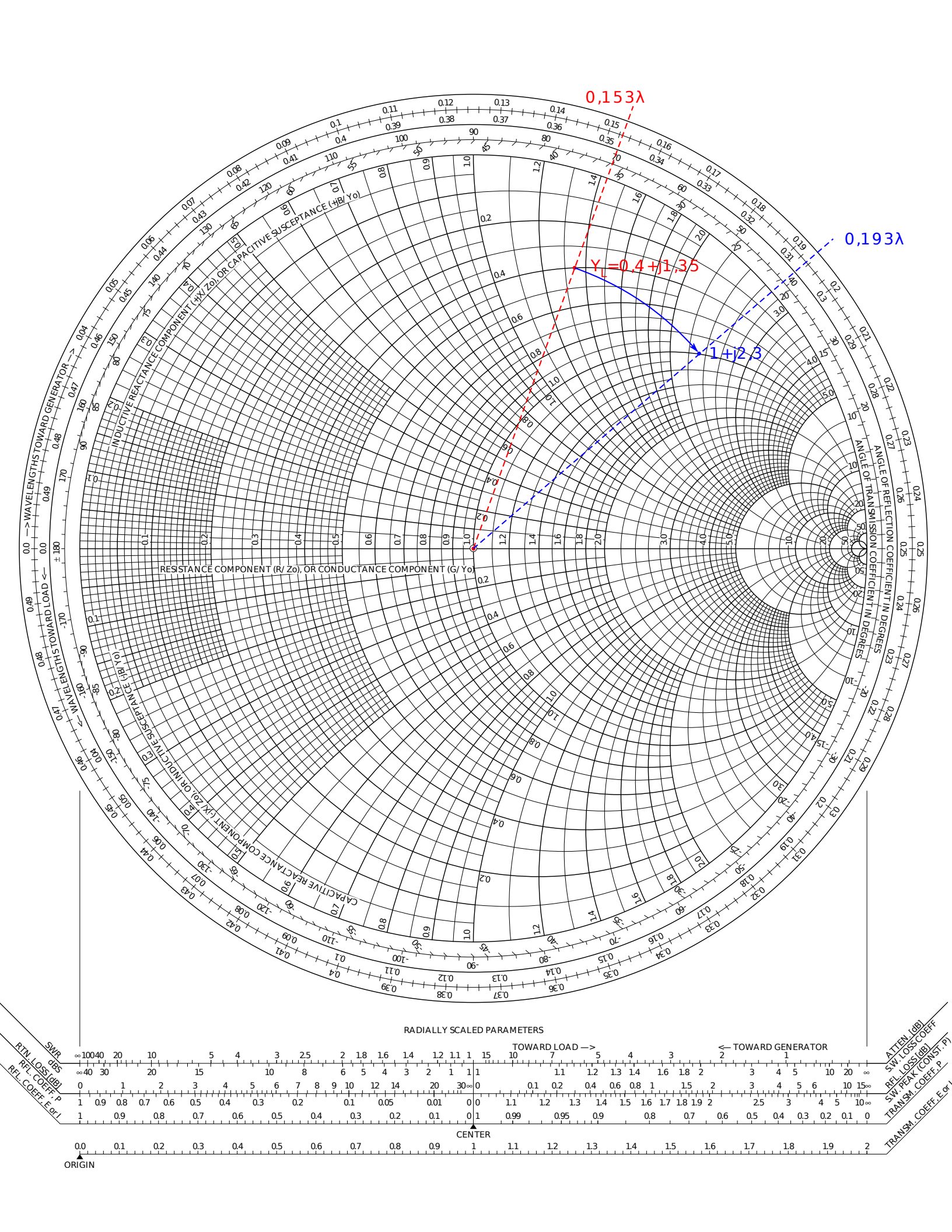
TOWARD LOAD —> <— TOWARD GENERATOR

SWR
RTN. LOSS [dB]
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. [dB]
SW. LOSS [dB]
RFL. LOSS [dB]
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I

CENTER


0,153λ
Y_L=0,4+j1,35
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
ANGLE OF REFLECTION COEFFICIENT IN DEGREES
ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
—> WAVELENGTHS TOWARD GENERATOR —>
<— WAVELENGTHS TOWARD LOAD <—
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS COEFF
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN


0,153λ
Y_L=0,4+j1,35
1+j2,3
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
ANGLE OF REFLECTION COEFFICIENT IN DEGREES
ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
—> WAVELENGTHS TOWARD GENERATOR —>
<— WAVELENGTHS TOWARD LOAD <—
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS COEFF
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN


0,153λ
0,193λ
Y_L=0,4+j1,35
1+j2,3
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
ANGLE OF REFLECTION COEFFICIENT IN DEGREES
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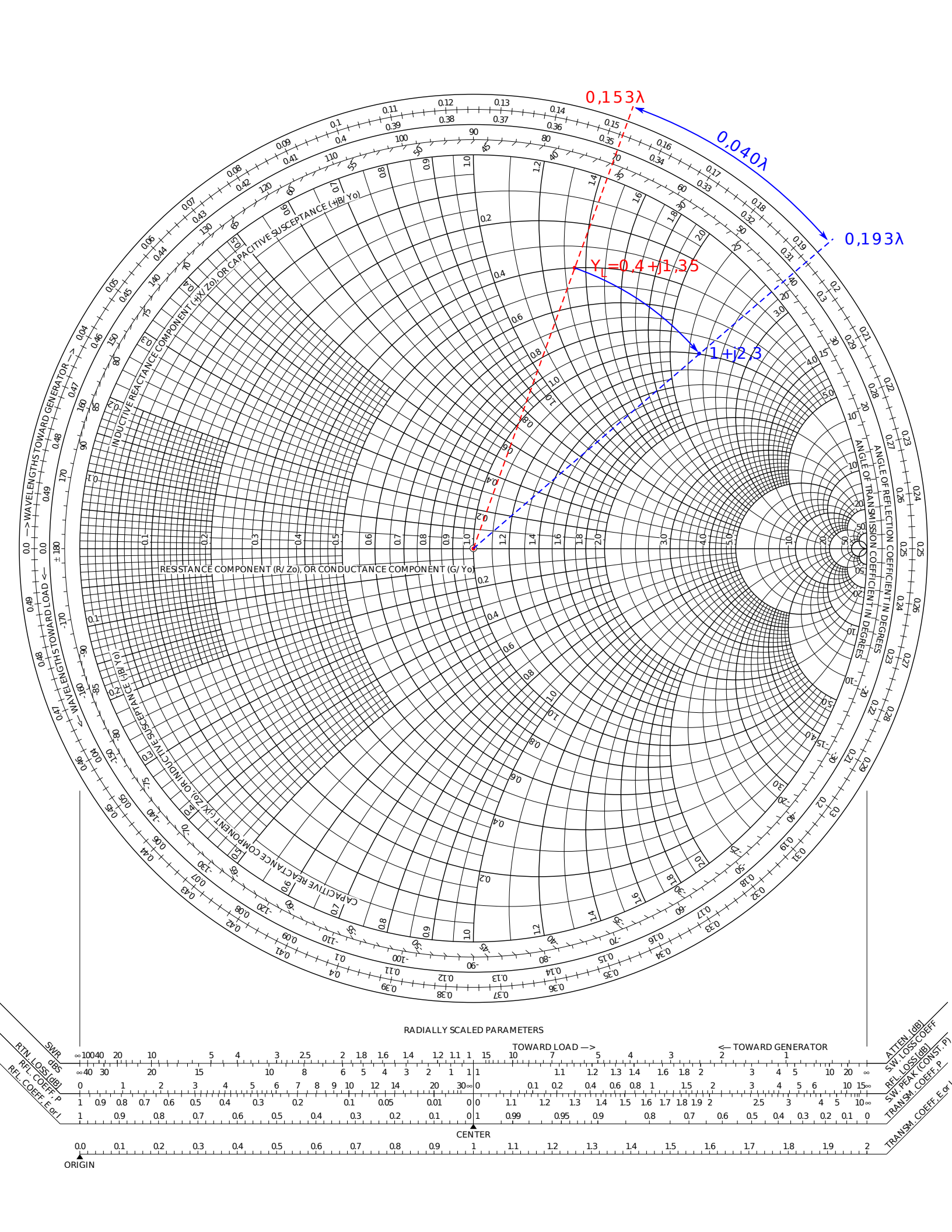
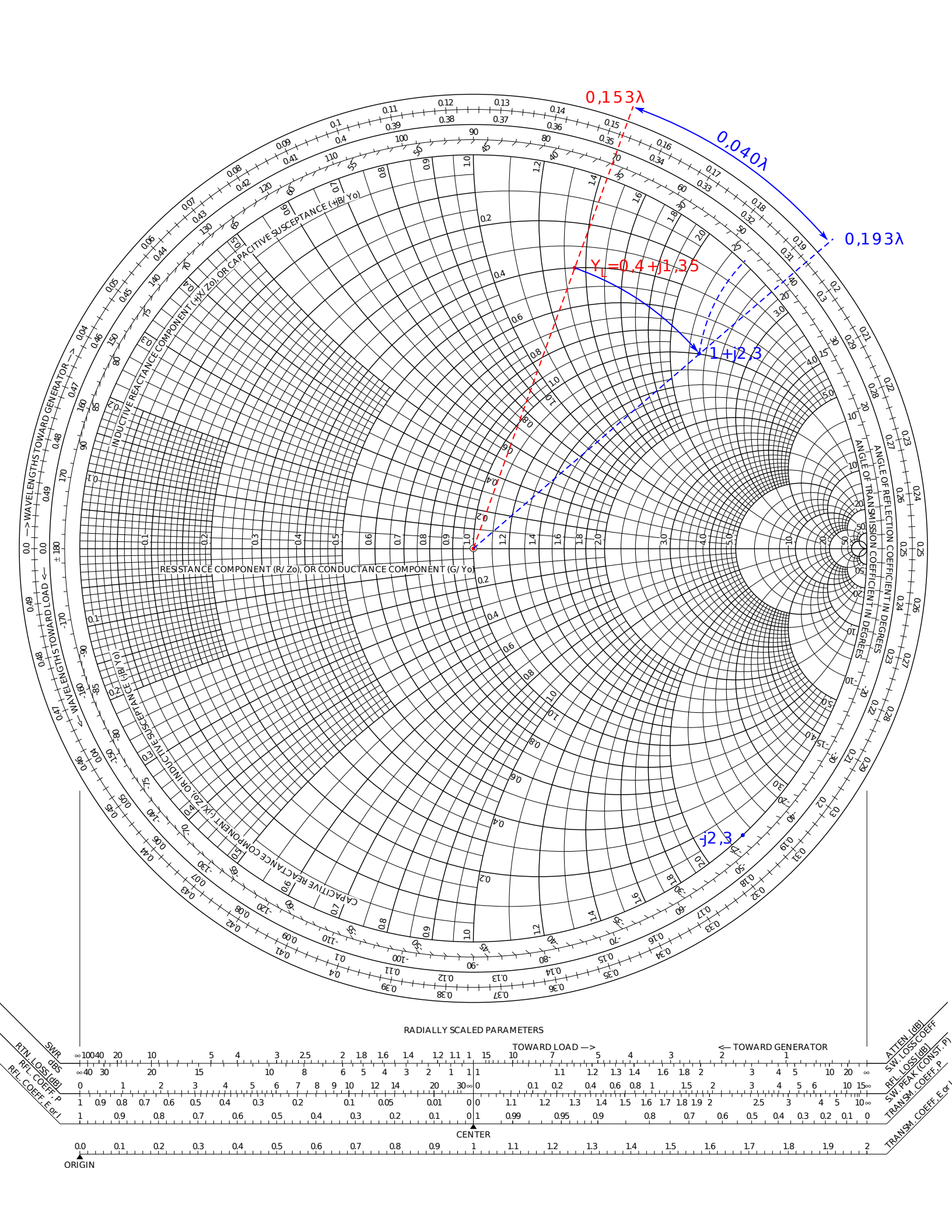
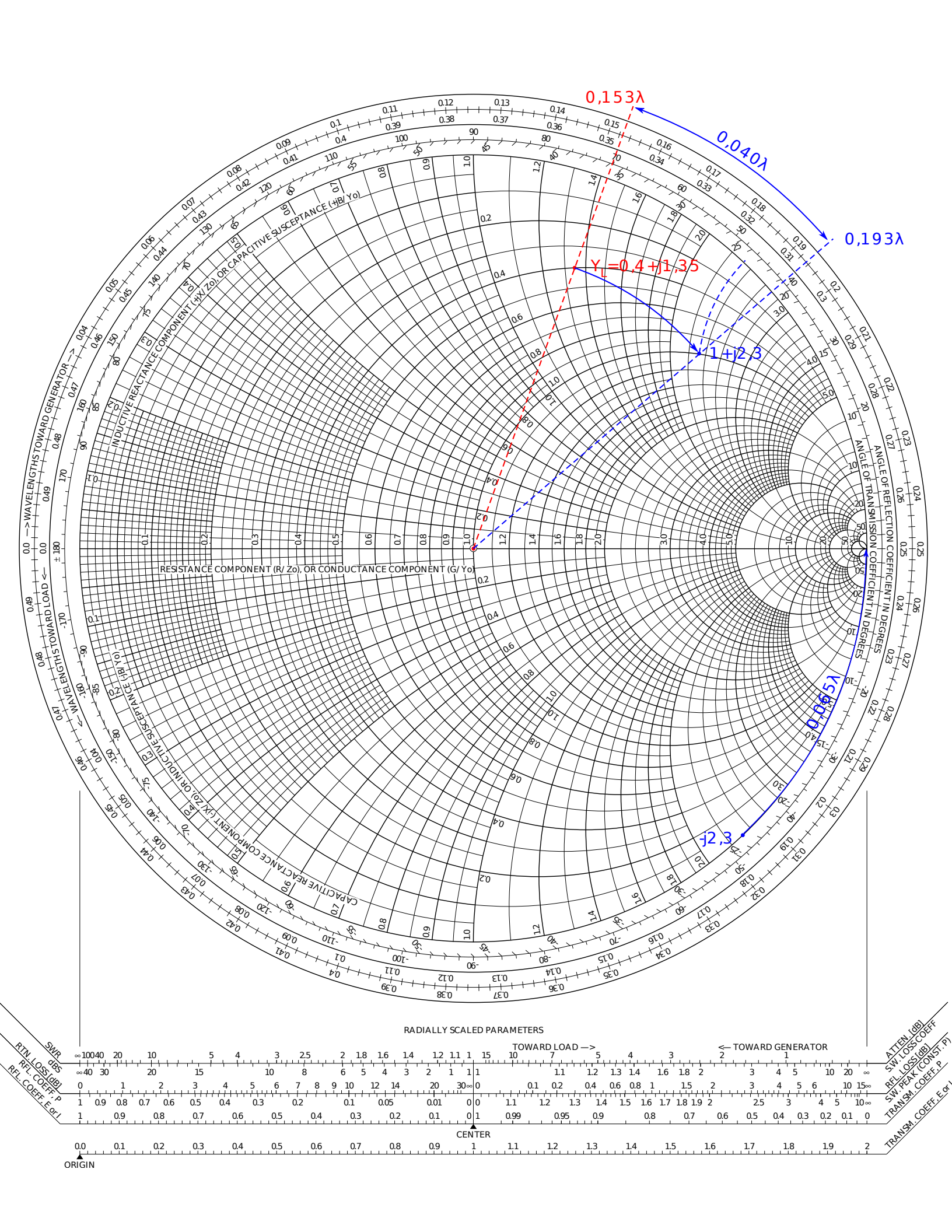
<— WAVELENGTHS TOWARD LOAD <—
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
dBS
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS COEFF
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN


0,153λ
0,040λ
0,193λ
Y_L=0,4+j1,35
1+j2,3
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
ANGLE OF REFLECTION COEFFICIENT IN DEGREES
ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
—> WAVELENGTHS TOWARD GENERATOR —>
<— WAVELENGTHS TOWARD LOAD <—
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS COEFF
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN


0,153λ
0,040λ
0,193λ
Y_L=0,4+j1,35
1+j2,3
-j2,3
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
—> WAVELENGTHS TOWARD GENERATOR —>
<— WAVELENGTHS TOWARD LOAD <—
ANGLE OF REFLECTION COEFFICIENT IN DEGREES
ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS COEFF
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN


0,153λ
0,040λ
0,193λ
Y_L=0,4+j1,35
1+j2,3
0,065λ
-j2,3
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
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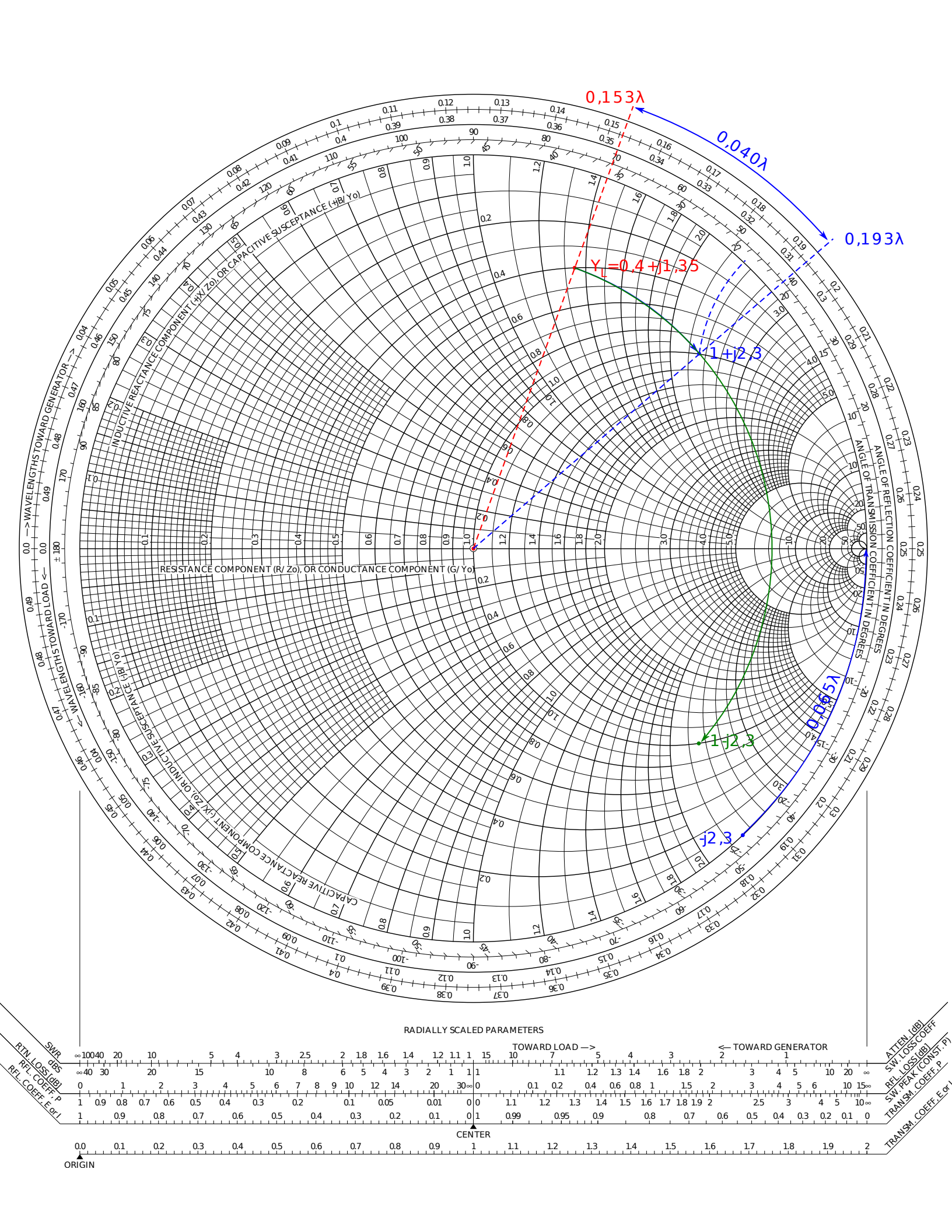
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS COEFF
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN


0,153λ
0,040λ
0,193λ
Y_L=0,4+j1,35
1+j2,3
0,065λ
1-j2,3
j2,3
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
—> WAVELENGTHS TOWARD GENERATOR —>
<— WAVELENGTHS TOWARD LOAD <—
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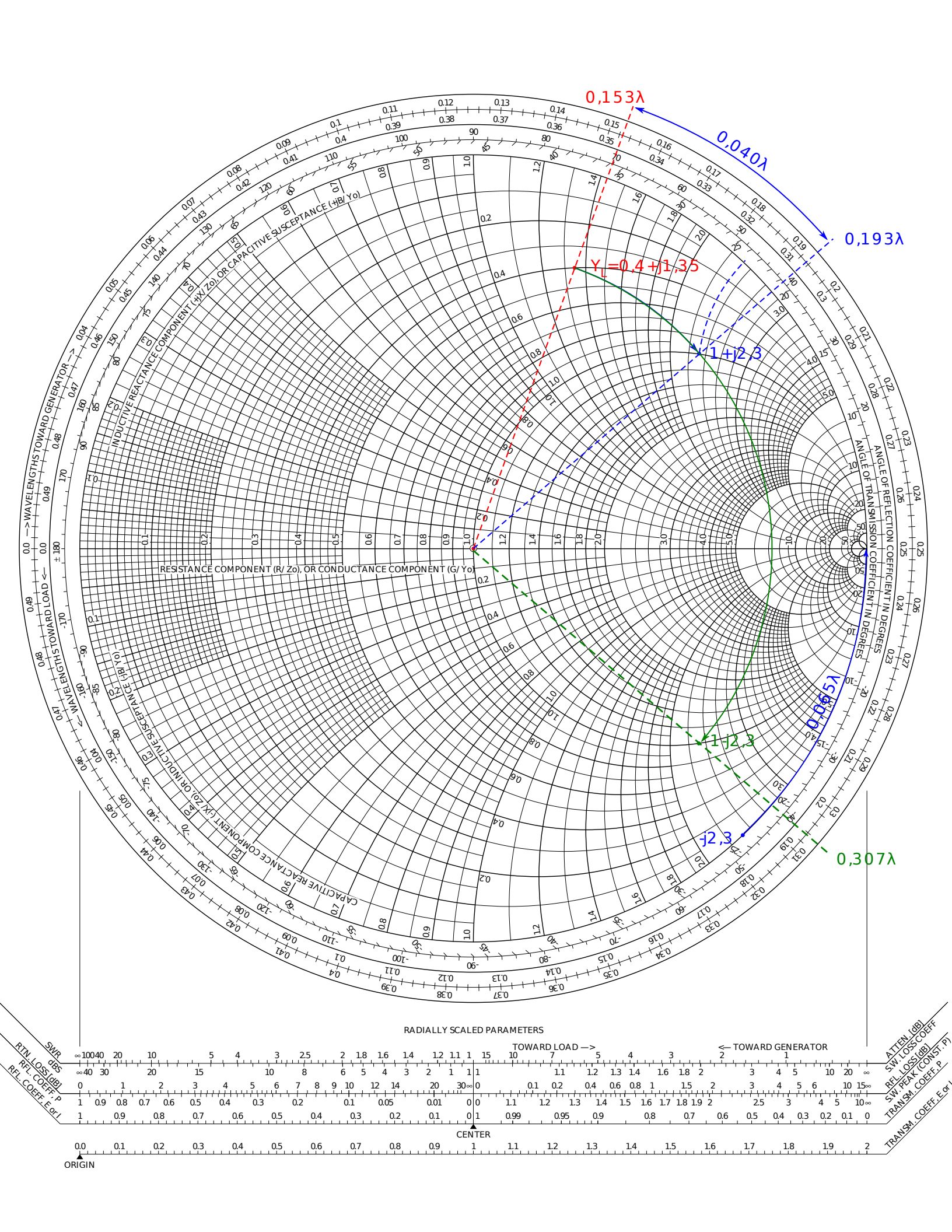
ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
RTN. LOSS (dB)
RFL. COEFF.: P
RFL. COEFF.: E or I
ATTEN. (dB)
SW. LOSS COEFF
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF.: P
TRANSM. COEFF.: E or I
CENTER
ORIGIN


0,153λ
0,040λ
0,193λ
Y_L=0,4+j1,35
1+j2,3
0,065λ
1-j2,3
-j2,3
0,307λ
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
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<— WAVELENGTHS TOWARD LOAD <—
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ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
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RTN. LOSS (dB)
RFL. COEFF. P
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SW. LOSS COEFF
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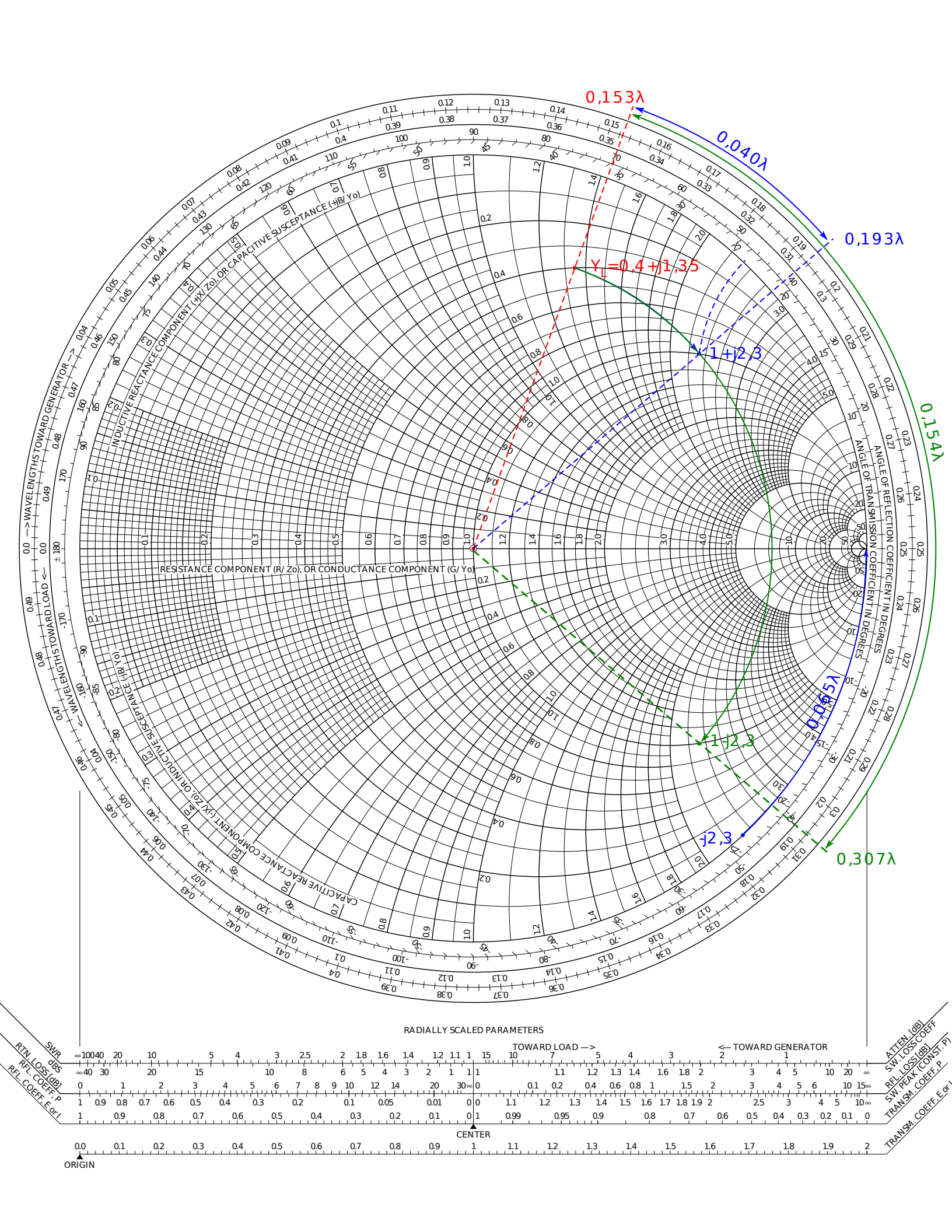
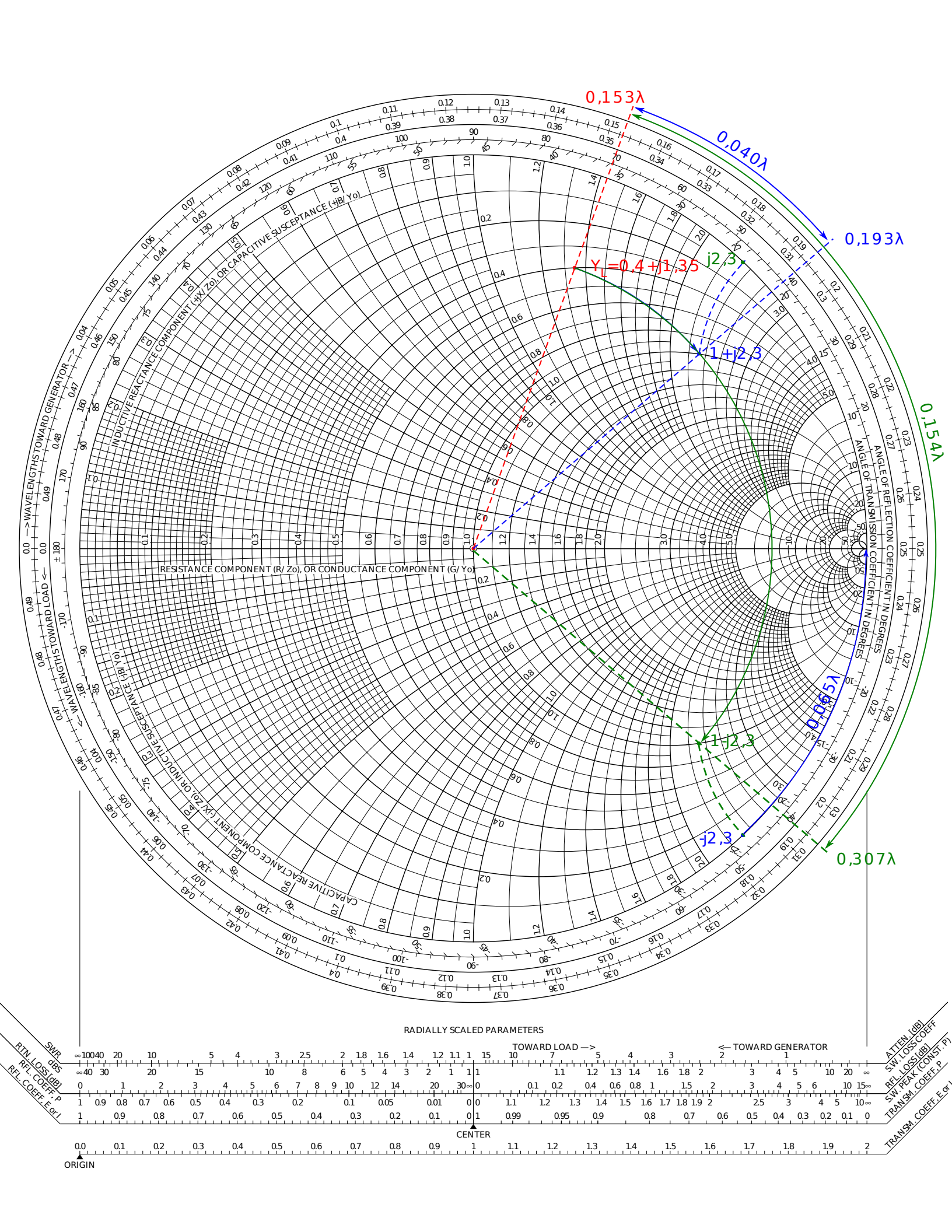
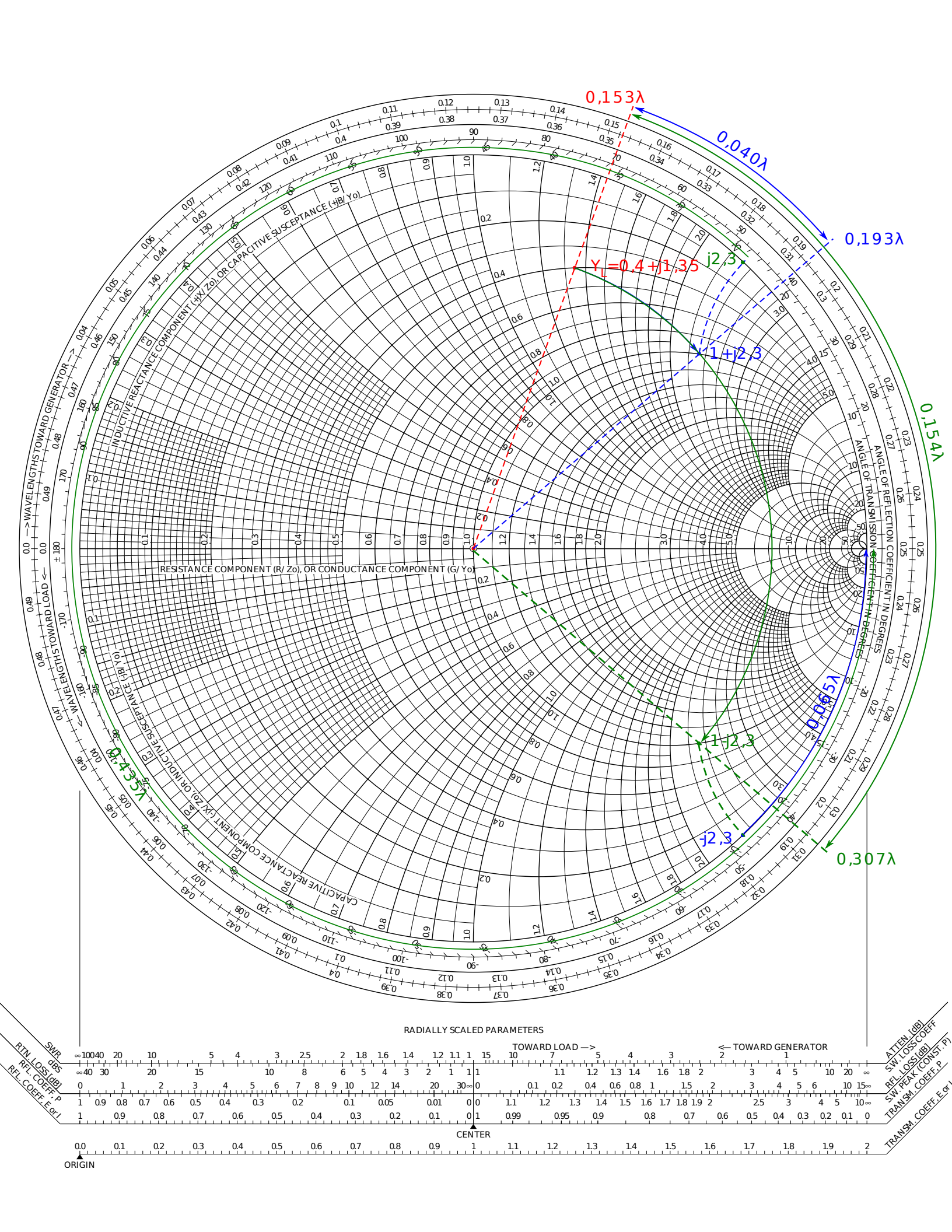
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN

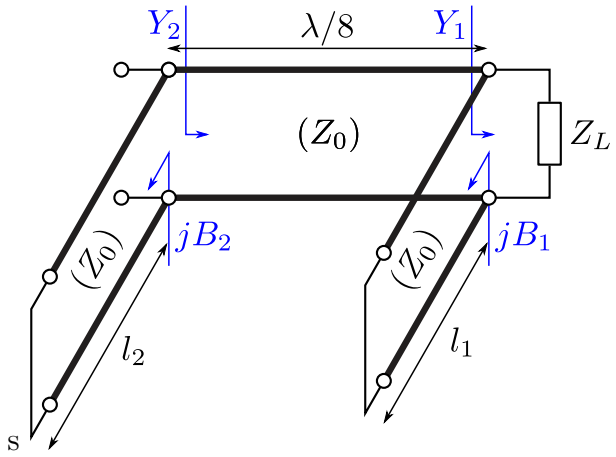

0,153λ
0,040λ
0,193λ
0,154λ
0,307λ
0,065λ
Y_L=0,4+j1,35
1+j2,3
1-j2,3
-j2,3
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
—> WAVELENGTHS TOWARD GENERATOR —>
<— WAVELENGTHS TOWARD LOAD <—
ANGLE OF REFLECTION COEFFICIENT IN DEGREES
ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS (dB)
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN


0,153λ
0,040λ
0,193λ
0,154λ
0,307λ
0,065λ
Y_L=0,4+j1,35
j2,3
1+j2,3
1-j2,3
-j2,3
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
—> WAVELENGTHS TOWARD GENERATOR —>
<— WAVELENGTHS TOWARD LOAD <—
ANGLE OF REFLECTION COEFFICIENT IN DEGREES
ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS COEFF
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN


0,153λ
0,040λ
0,193λ
0,154λ
Y_L=0,4+j1,35
j2,3
1+j2,3
0,065λ
1-j2,3
-j2,3
0,307λ
0,435λ
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
ANGLE OF REFLECTION COEFFICIENT IN DEGREES
ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
WAVELENGTHS TOWARD GENERATOR —>
WAVELENGTHS TOWARD LOAD <—
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS (dB)
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN

Red de adaptación con dos stubs

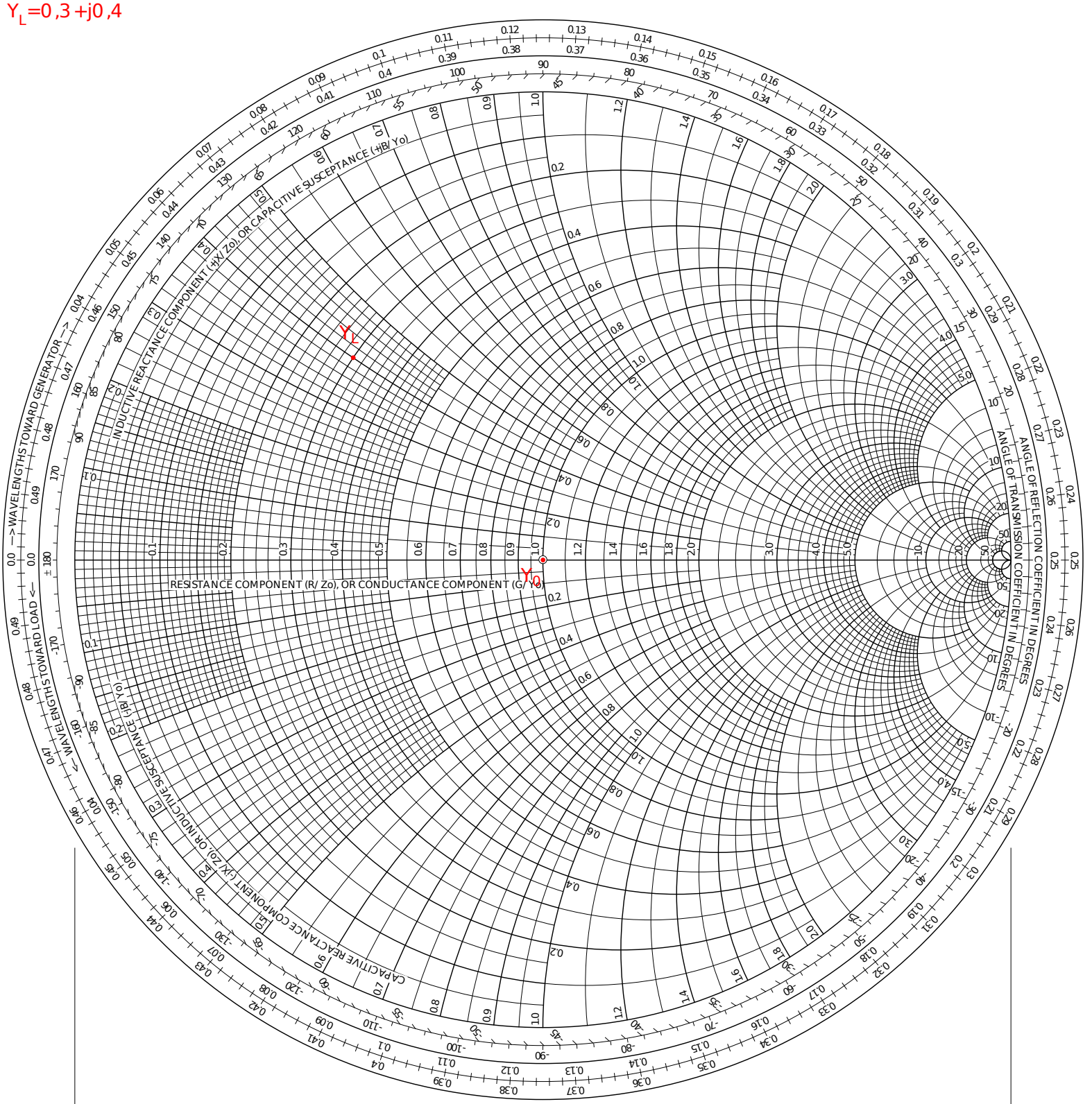
Calcular l_1 y l_2 para obtener adaptación a la entrada ($Z_{in} = Z_0$).

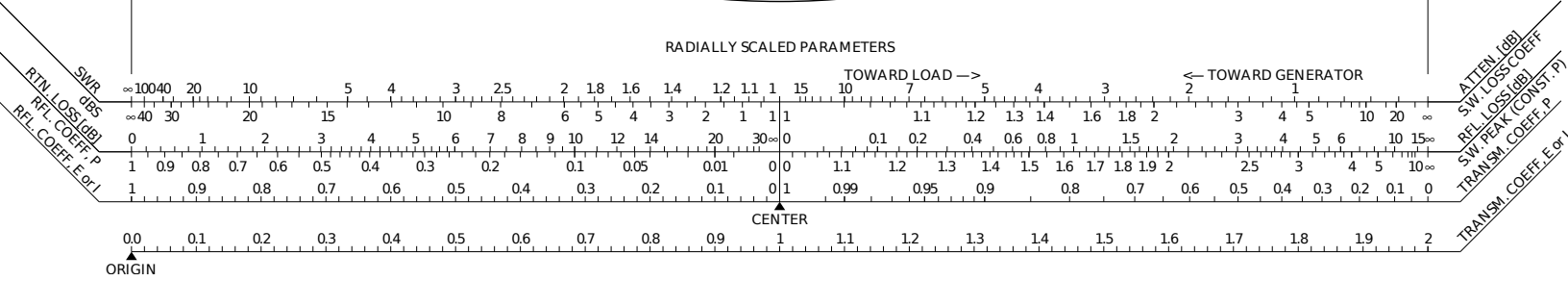


Especificaciones:

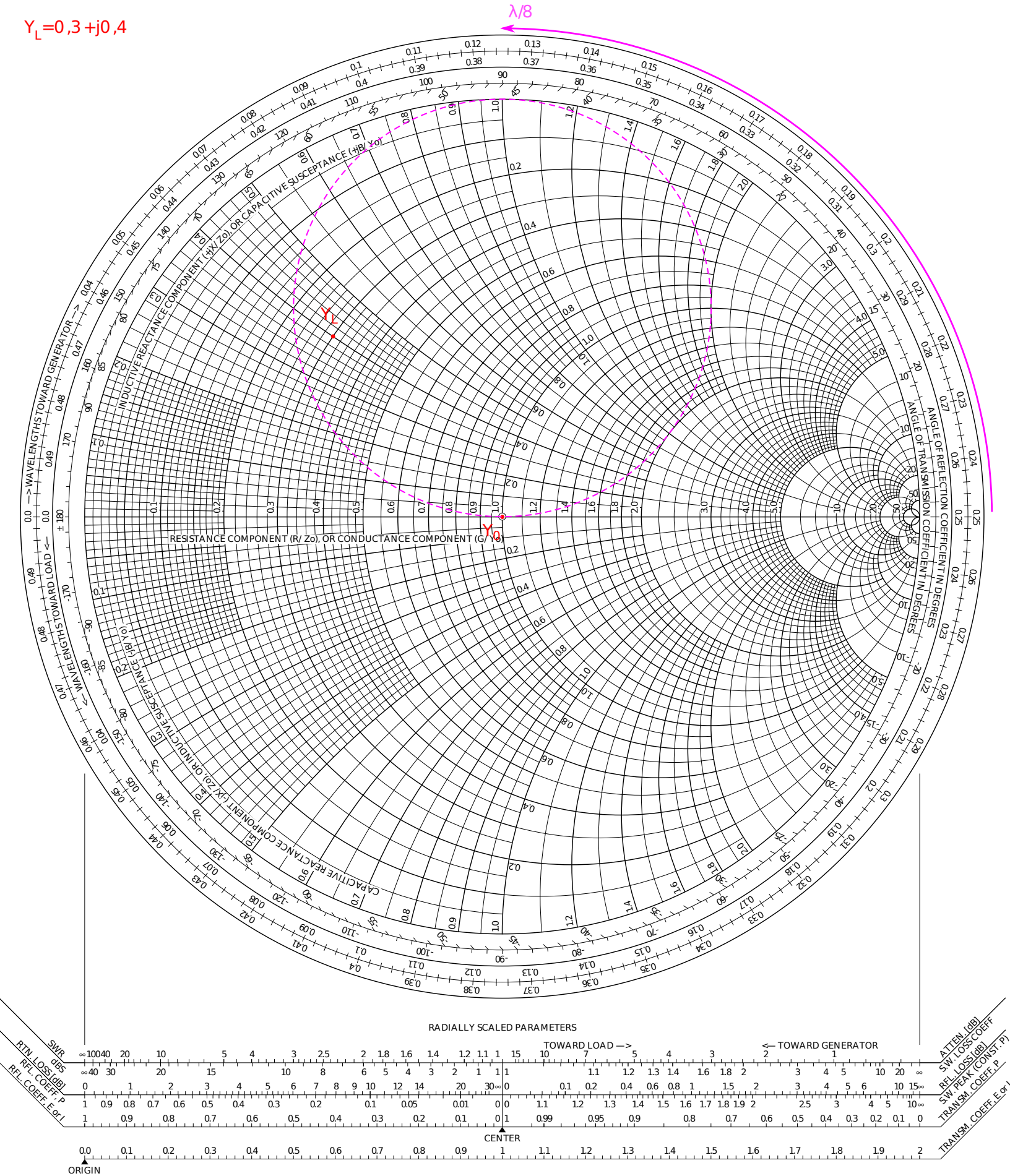
- $Z_0 = 50\ \Omega$
- $Z_L = 60 - j80\ \Omega$

$Y_L = 0{,}3 + j0{,}4$


INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
—> WAVELENGTHS TOWARD GENERATOR —>
<— WAVELENGTHS TOWARD LOAD <—
ANGLE OF REFLECTION COEFFICIENT IN DEGREES
ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
Y_L
Y_0


RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS (dB)
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN

$Y_L = 0{,}3 + j0{,}4$



RADIALLY SCALED PARAMETERS

TOWARD LOAD —> <— TOWARD GENERATOR

SWR

RTN. LOSS (dB)

RFL. COEFF. P

RFL. COEFF. E or I

ATTEN. (dB)

SW. LOSS COEFF

RFL. LOSS (dB)

SW. PEAK (CONST. P)

TRANSM. COEFF. P

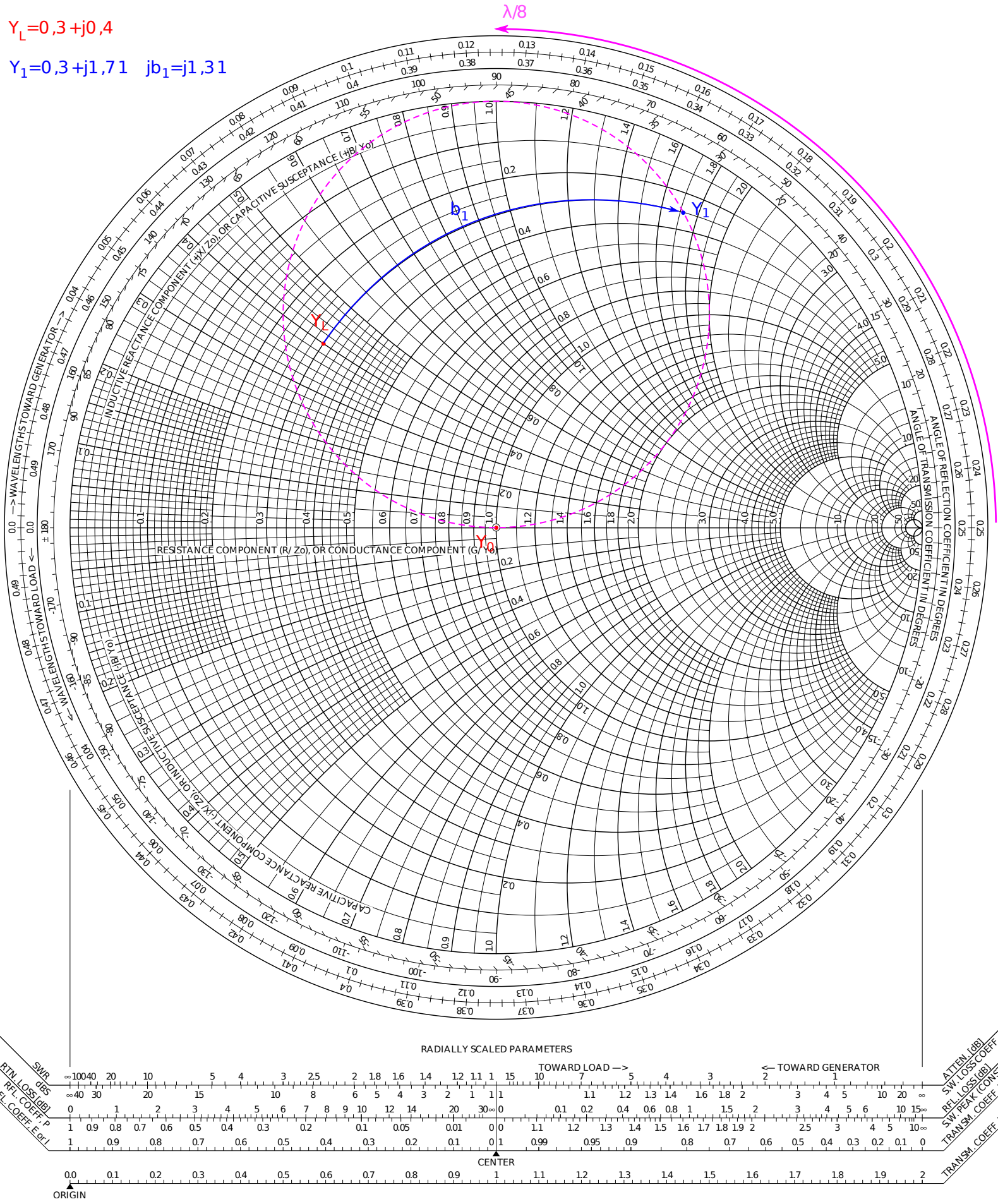
TRANSM. COEFF. E or I

CENTER

ORIGIN

$Y_L = 0,3 + j0,4$

$Y_1 = 0,3 + j1,71 \quad jb_1 = j1,31$



RADIALLY SCALED PARAMETERS

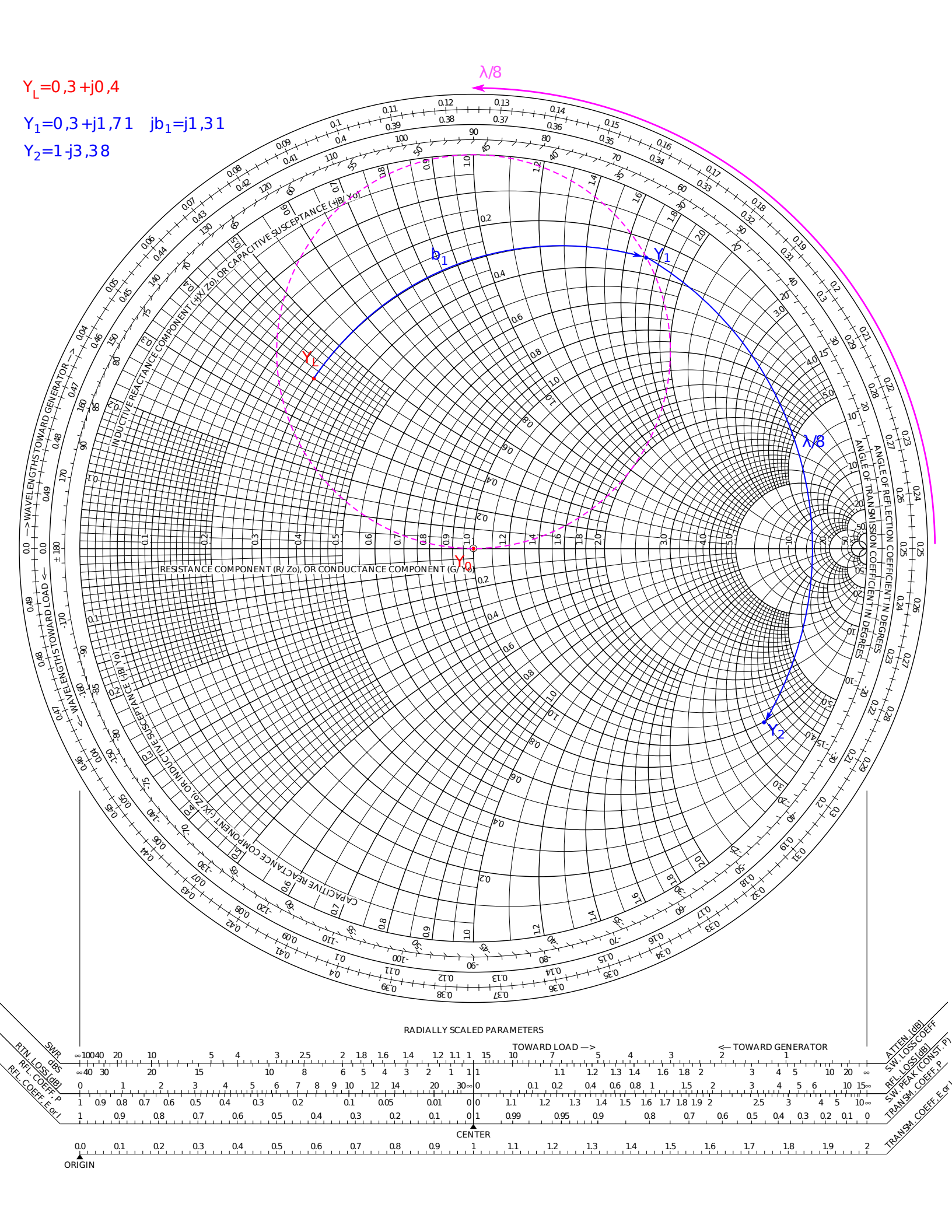
TOWARD LOAD —> <— TOWARD GENERATOR

SWR
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I

ATTEN. (dB)
SW. LOSS COEFF
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I

CENTER

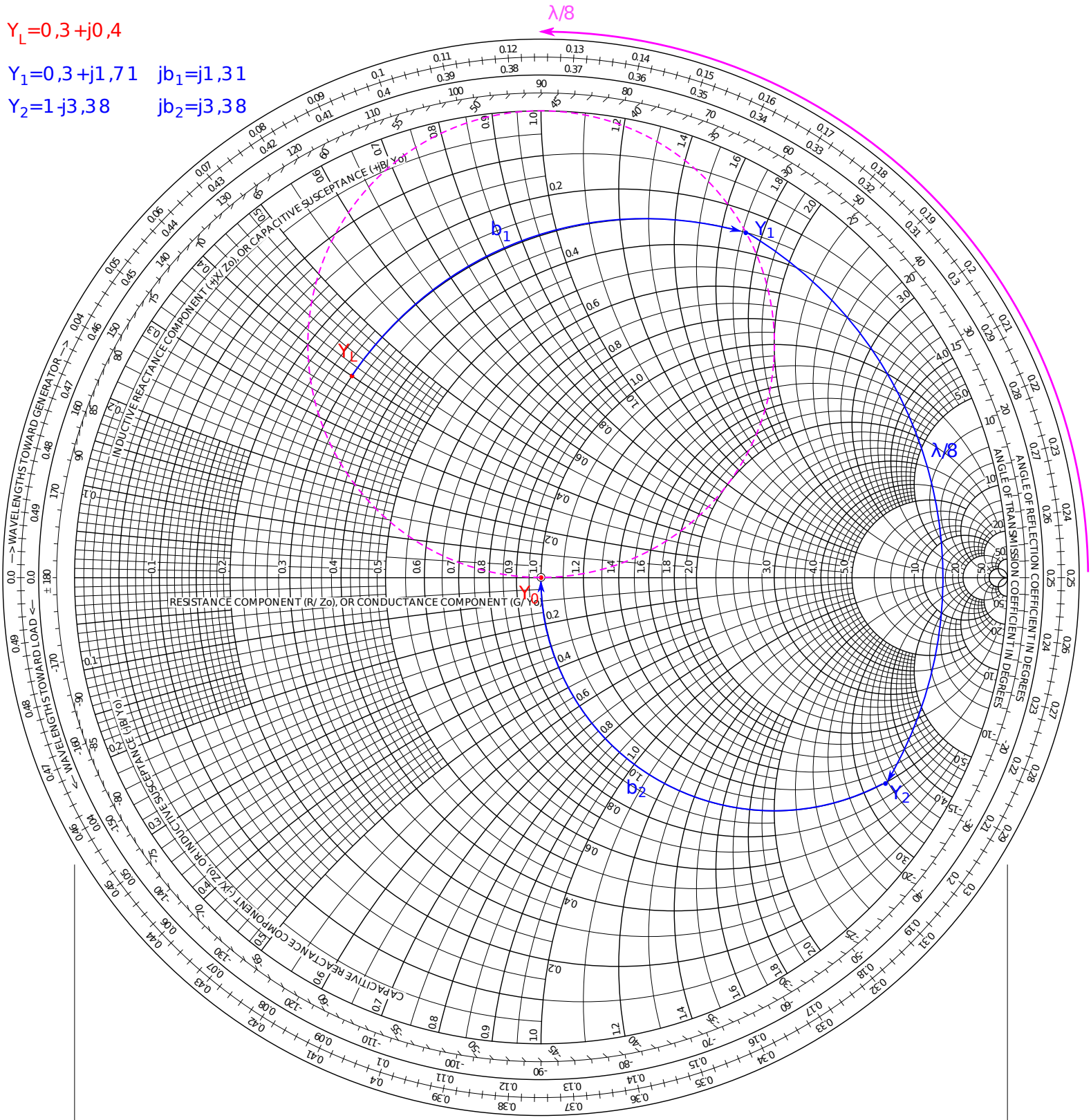
ORIGIN


Y_L=0,3 +j0,4
Y_1=0,3 +j1,7 1 jb_1=j1,3 1
Y_2=1 -j3,3 8
λ/8
Y_L
Y_1
Y_2
b_1
λ/8
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
—> WAVELENGTHS TOWARD GENERATOR —>
<— WAVELENGTHS TOWARD LOAD <—
ANGLE OF REFLECTION COEFFICIENT IN DEGREES
ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS COEFF
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN

$Y_L = 0,3 + j0,4$

$Y_1 = 0,3 + j1,71$ $\quad jb_1 = j1,31$

$Y_2 = 1 - j3,38$ $\quad jb_2 = j3,38$



RADIALLY SCALED PARAMETERS

TOWARD LOAD —> <— TOWARD GENERATOR

SWR

RTN. LOSS [dB]

RFL. COEFF. P

RFL. COEFF. E or I

ATTEN. [dB]

SW. LOSS COEFF

RFL. LOSS [dB]

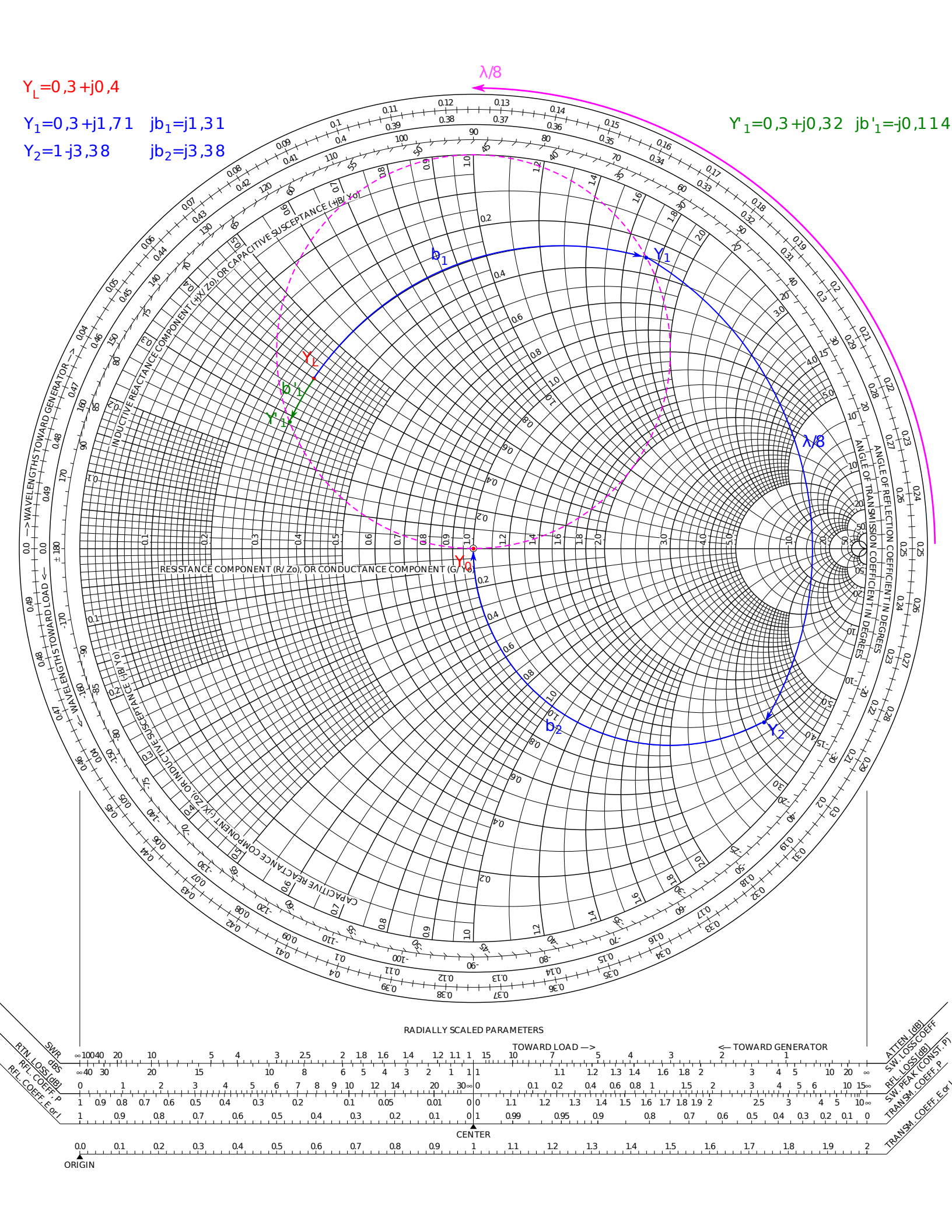
SW. PEAK (CONST. P)

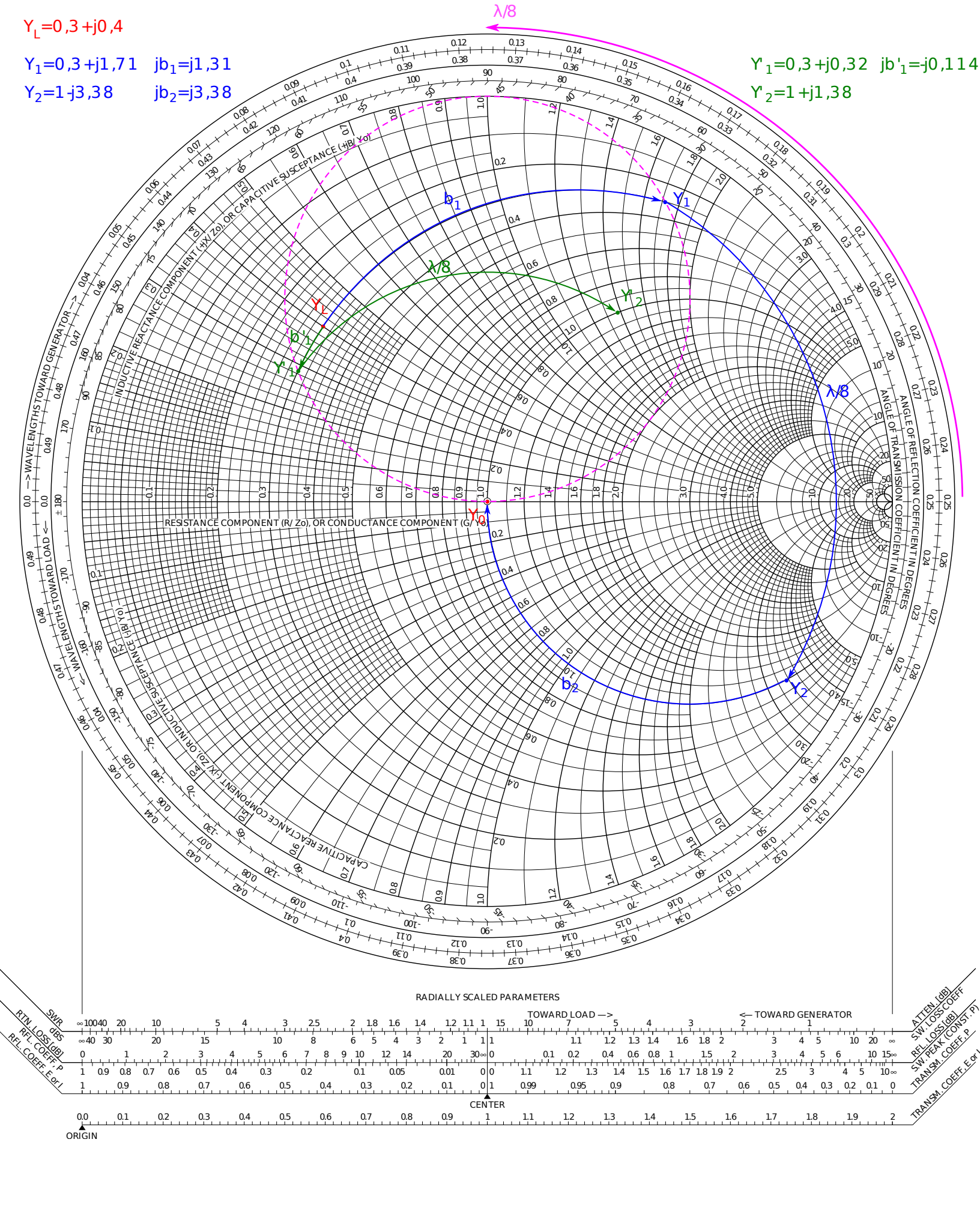
TRANSM. COEFF. P

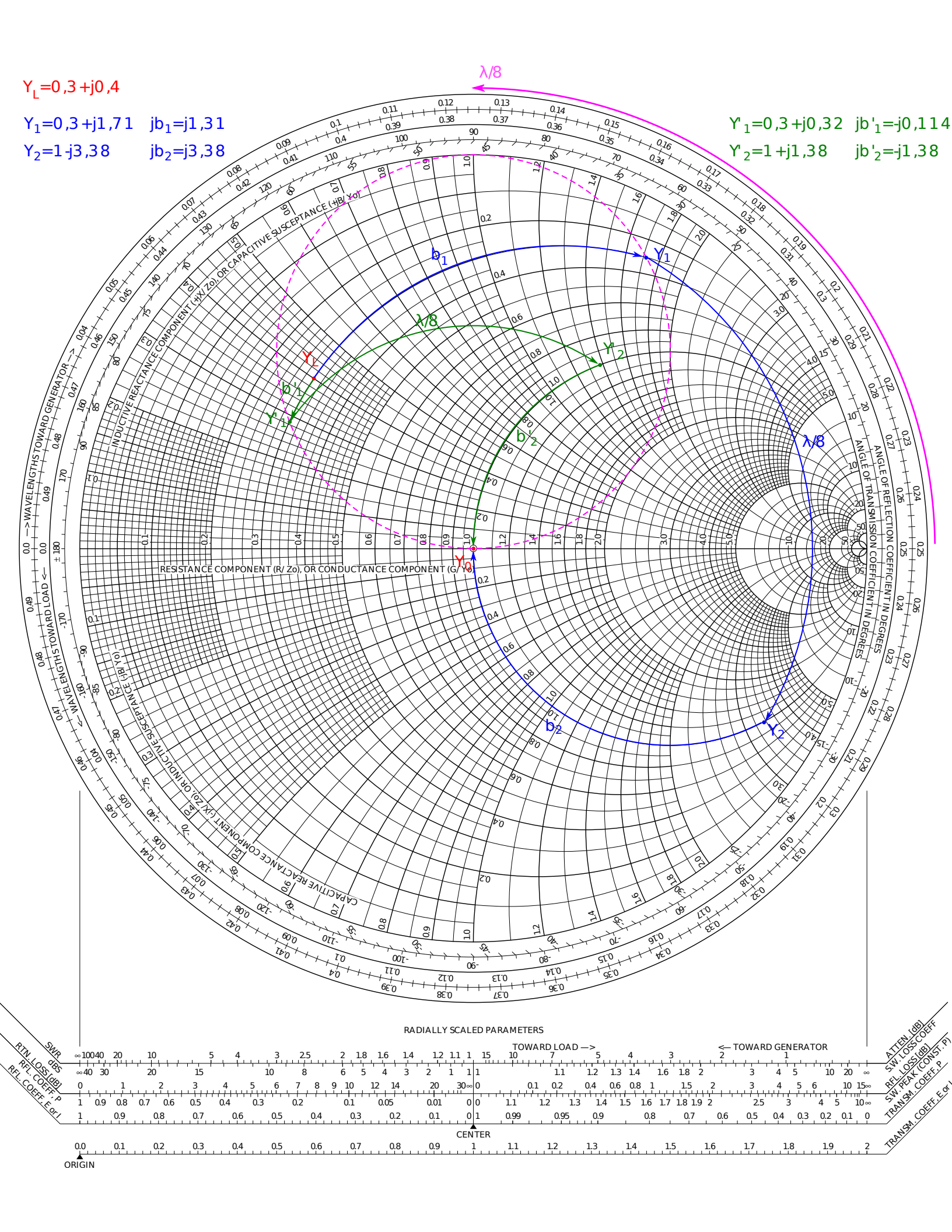
TRANSM. COEFF. E or I

CENTER

ORIGIN

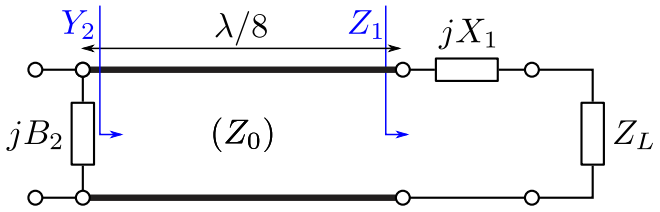

Y_L=0,3 +j0,4
Y_1=0,3 +j1,7 1 jb_1=j1,3 1
Y_2=1 -j3,3 8 jb_2=j3,3 8
Y'_1=0,3 +j0,3 2 jb'_1=-j0,1 1 4
λ/8
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
ANGLE OF REFLECTION COEFFICIENT IN DEGREES
ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
—> WAVELENGTHS TOWARD GENERATOR —>
<— WAVELENGTHS TOWARD LOAD <—
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
RTN. LOSS (dB)
RFL. COEFF.: P
RFL. COEFF.: E or I
ATTEN. (dB)
SW. LOSS (dB)
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF.: P
TRANSM. COEFF.: E or I
CENTER
ORIGIN


Y_L=0,3 +j0,4
Y_1=0,3 +j1,7 1 jb_1=j1,3 1
Y_2=1 -j3,3 8 jb_2=j3,3 8
Y'_1=0,3 +j0,3 2 jb'_1=-j0,1 1 4
Y'_2=1 +j1,3 8
λ/8
λ/8
λ/8
Y_L
Y_1
Y_2
Y_0
Y'_1
Y'_2
b_1
b_2
b'_1
RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
—> WAVELENGTHS TOWARD GENERATOR —>
<— WAVELENGTHS TOWARD LOAD <—
ANGLE OF REFLECTION COEFFICIENT IN DEGREES
ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS (dB)
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN


Y_L=0,3 +j0,4
Y_1=0,3 +j1,71 jb_1=j1,31
Y_2=1 -j3,38 jb_2=j3,38
Y'_1=0,3 +j0,32 jb'_1=-j0,114
Y'_2=1 +j1,38 jb'_2=-j1,38
λ/8
λ/8
λ/8
Y_L
Y_1
Y_2
Y_0
Y'_1
Y'_2
b_1
b_2
b'_1
b'_2
INDUCTIVE REACTANCE COMPONENT (+jX/Zo), OR CAPACITIVE SUSCEPTANCE (+jB/Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/Zo), OR INDUCTIVE SUSCEPTANCE (-jB/Yo)
RESISTANCE COMPONENT (R/Zo), OR CONDUCTANCE COMPONENT (G/Yo)
ANGLE OF REFLECTION COEFFICIENT IN DEGREES
ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
—> WAVELENGTHS TOWARD GENERATOR —>
<— WAVELENGTHS TOWARD LOAD <—
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
RTN. LOSS (dB)
RFL. COEFF.: P
RFL. COEFF.: E or I
ATTEN. (dB)
SW. LOSS (dB)
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF.: P
TRANSM. COEFF.: E or I
CENTER
ORIGIN

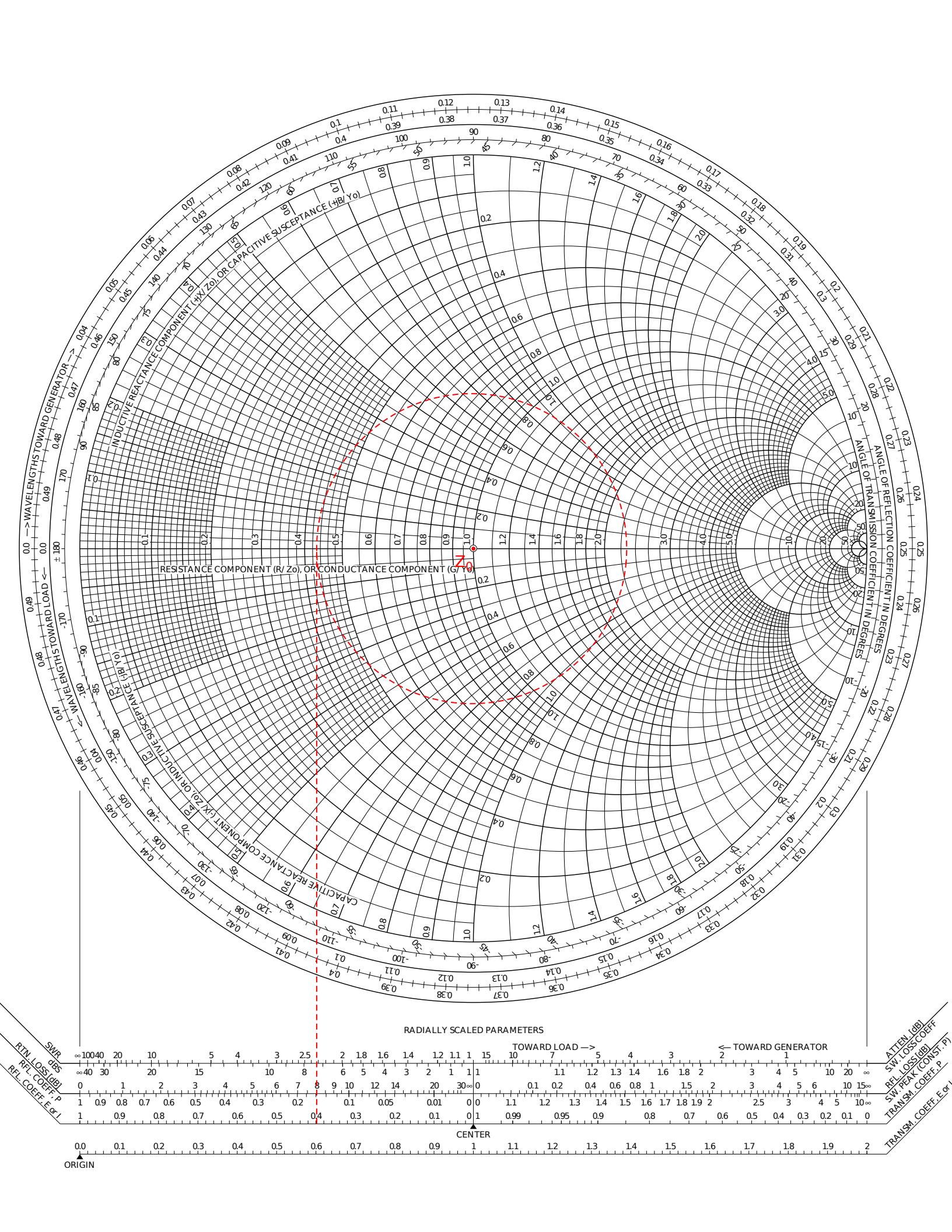
Red de adaptación paralelo-serie

Calcular X_1 y B_2 para obtener adaptación a la entrada ($Z_{in} = Z_0$).

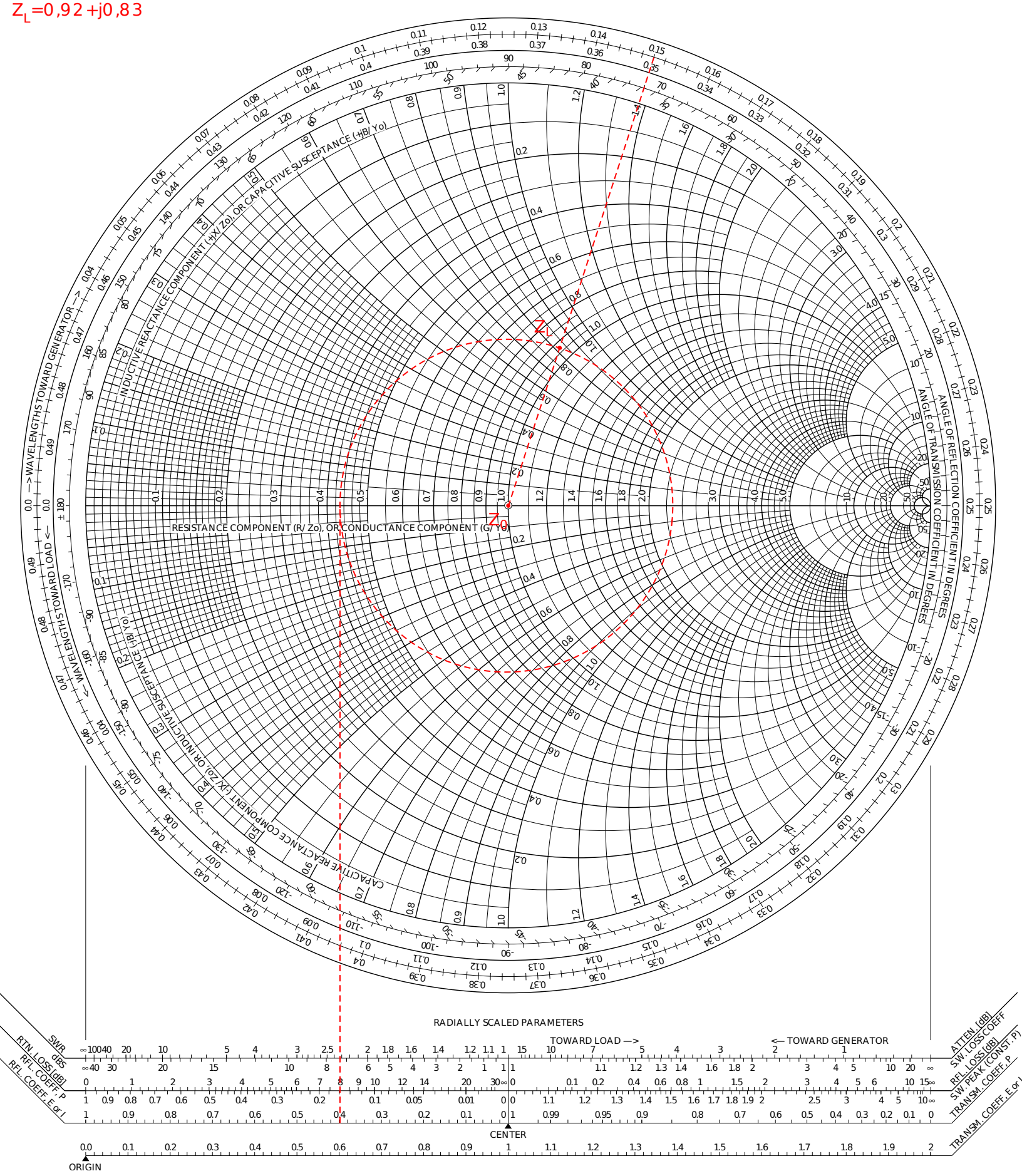


Especificaciones:

- La carga Z_L conectada a una línea con Z_0 produce RL = 8 dB.
- Si se sustituye Z_L por un cortocircuito, los mínimos de la onda estacionaria de voltaje se desplazan 0.15λ, alejándose de la carga.


RESISTANCE COMPONENT (R/ Zo), OR CONDUCTANCE COMPONENT (G/ Yo)
INDUCTIVE REACTANCE COMPONENT (+jX/ Zo), OR CAPACITIVE SUSCEPTANCE (+jB/ Yo)
CAPACITIVE REACTANCE COMPONENT (-jX/ Zo), OR INDUCTIVE SUSCEPTANCE (-jB/ Yo)
—> WAVELENGTHS TOWARD GENERATOR —>
<— WAVELENGTHS TOWARD LOAD <—
ANGLE OF REFLECTION COEFFICIENT IN DEGREES
ANGLE OF TRANSMISSION COEFFICIENT IN DEGREES
RADIALLY SCALED PARAMETERS
TOWARD LOAD —>
<— TOWARD GENERATOR
SWR
RTN. LOSS (dB)
RFL. COEFF. P
RFL. COEFF. E or I
ATTEN. (dB)
SW. LOSS COEFF
RFL. LOSS (dB)
SW. PEAK (CONST. P)
TRANSM. COEFF. P
TRANSM. COEFF. E or I
CENTER
ORIGIN

$Z_L = 0{,}92 + j0{,}83$



RADIALLY SCALED PARAMETERS

TOWARD LOAD —> <— TOWARD GENERATOR

SWR

RTN. LOSS (dB)

RFL. COEFF. P

RFL. COEFF. E or I

ATTEN. (dB)

SW. LOSS COEFF

RFL. LOSS (dB)

SW. PEAK (CONST. P)

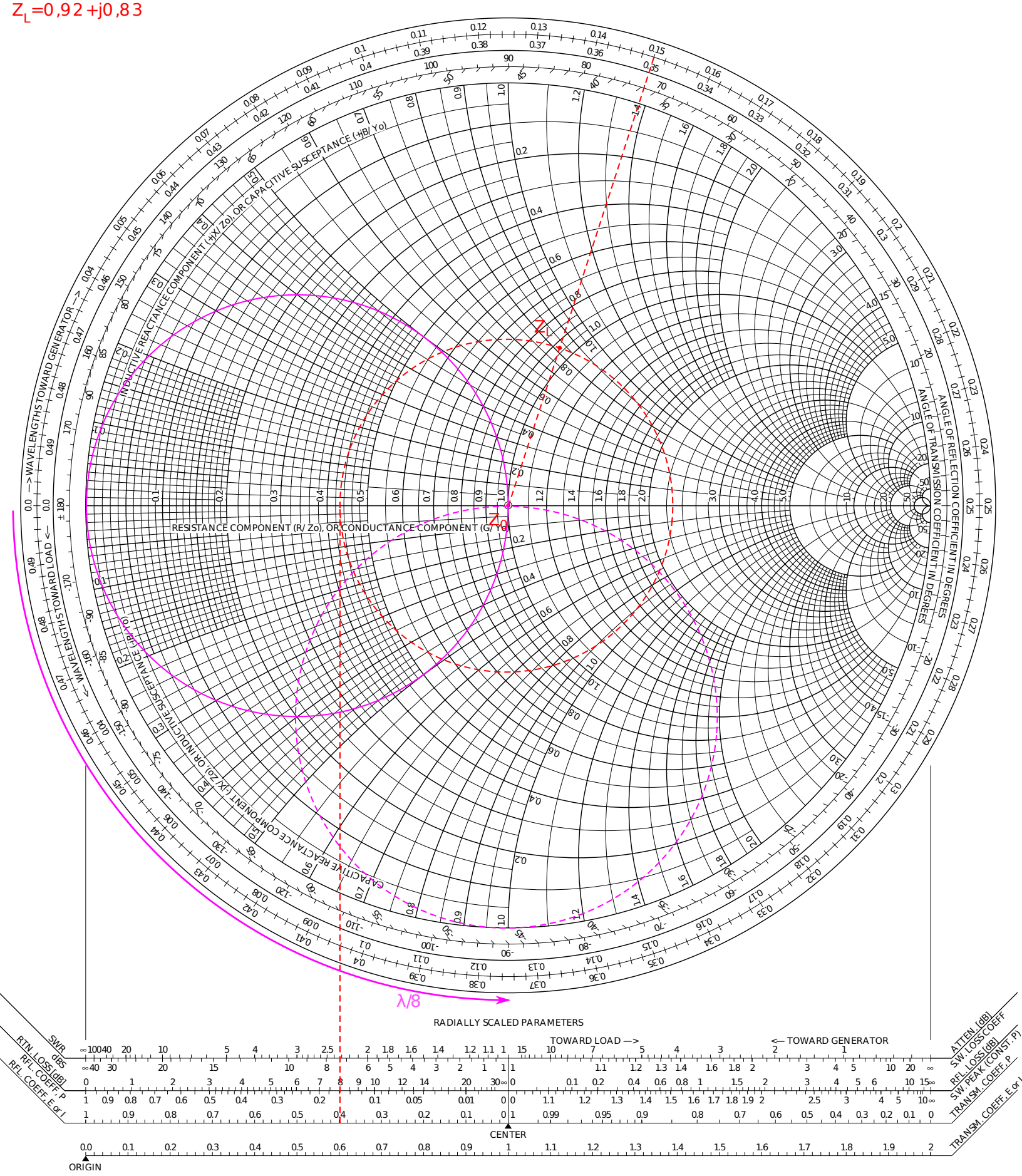
TRANSM. COEFF. P

TRANSM. COEFF. E or I

CENTER

ORIGIN

$Z_L = 0{,}92 + j0{,}83$



RADIALLY SCALED PARAMETERS

TOWARD LOAD —> <— TOWARD GENERATOR

SWR

RTN. LOSS (dB)

RFL. COEFF. P

RFL. COEFF. E or I

ATTEN. (dB)

SW. LOSS COEFF

RFL. LOSS (dB)

SW. PEAK (CONST. P)

TRANSM. COEFF. P

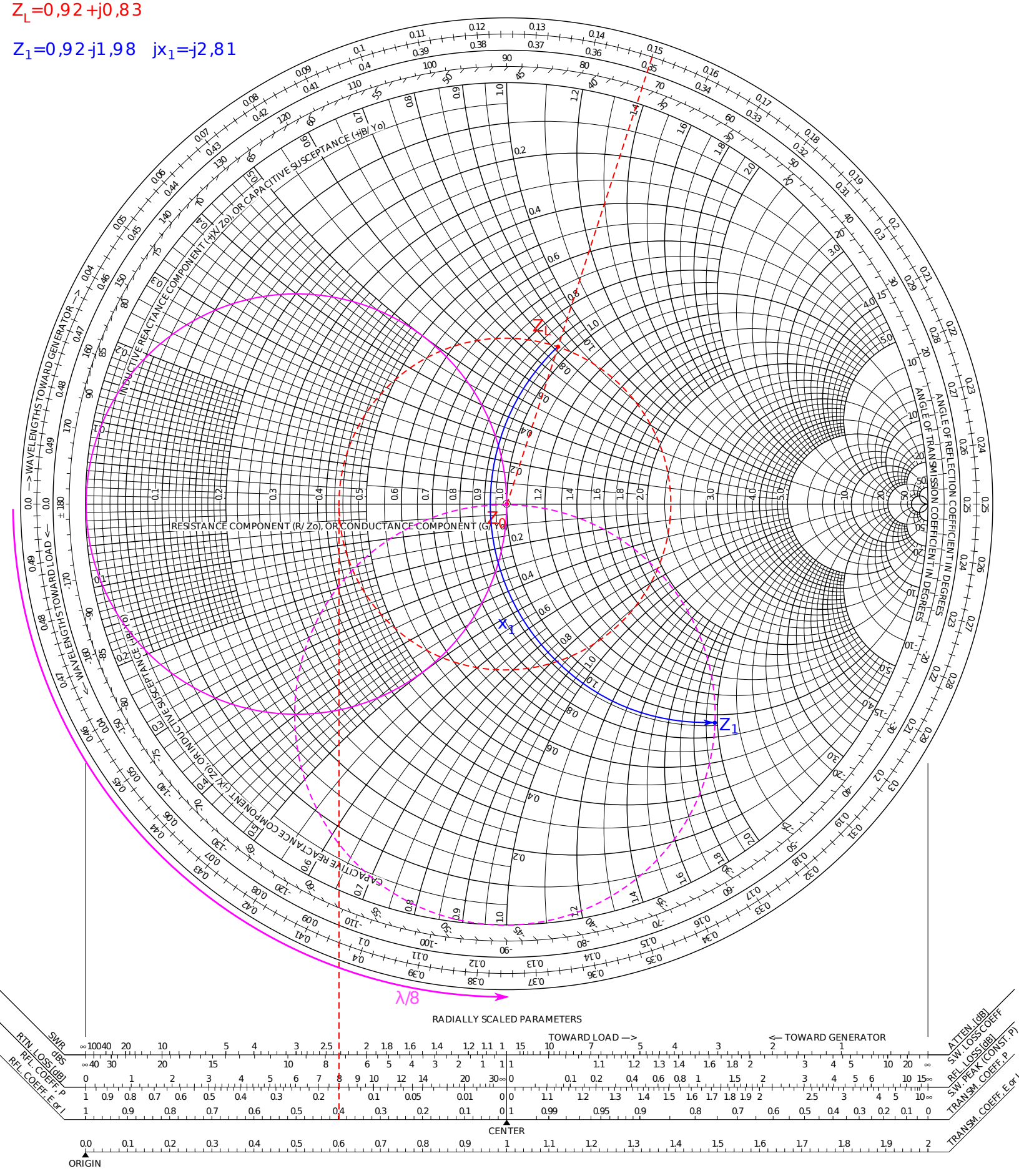
TRANSM. COEFF. E or I

CENTER

ORIGIN

Z_L=0,92+j0,83

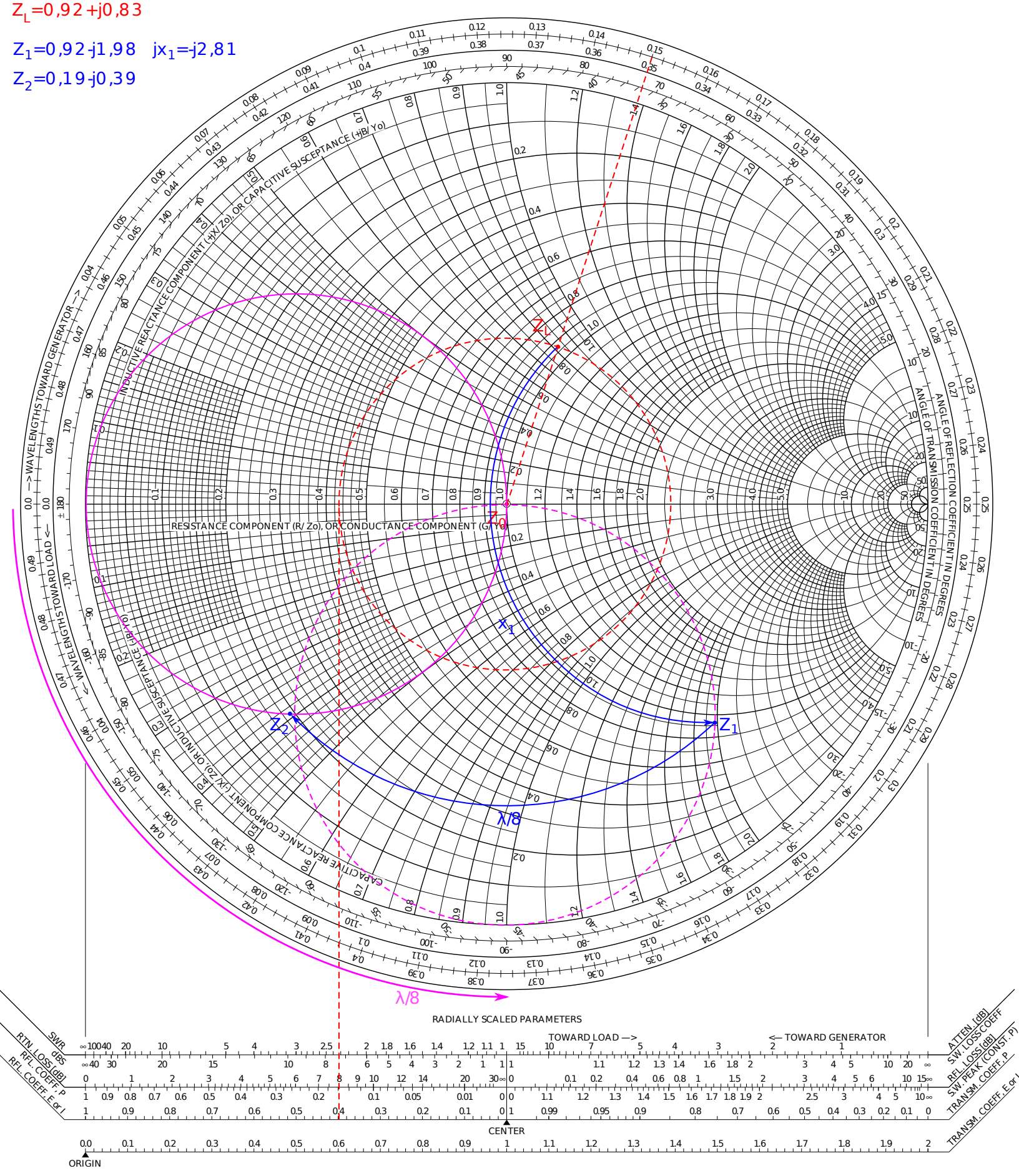
Z_1=0,92-j1,98 jx_1=-j2,81



$Z_L = 0{,}92 + j0{,}83$

$Z_1 = 0{,}92 - j1{,}98$ $\quad jx_1 = -j2{,}81$

$Z_2 = 0{,}19 - j0{,}39$



RADIALLY SCALED PARAMETERS

TOWARD LOAD —> <— TOWARD GENERATOR

SWR

RTN. LOSS (dB)

RFL. COEFF.: P

RFL. COEFF.: E or I

ATTEN. (dB)

SW. LOSS COEFF

RFL. LOSS (dB)

SW. PEAK (CONST. P)

TRANSM. COEFF.: P

TRANSM. COEFF.: E or I

CENTER

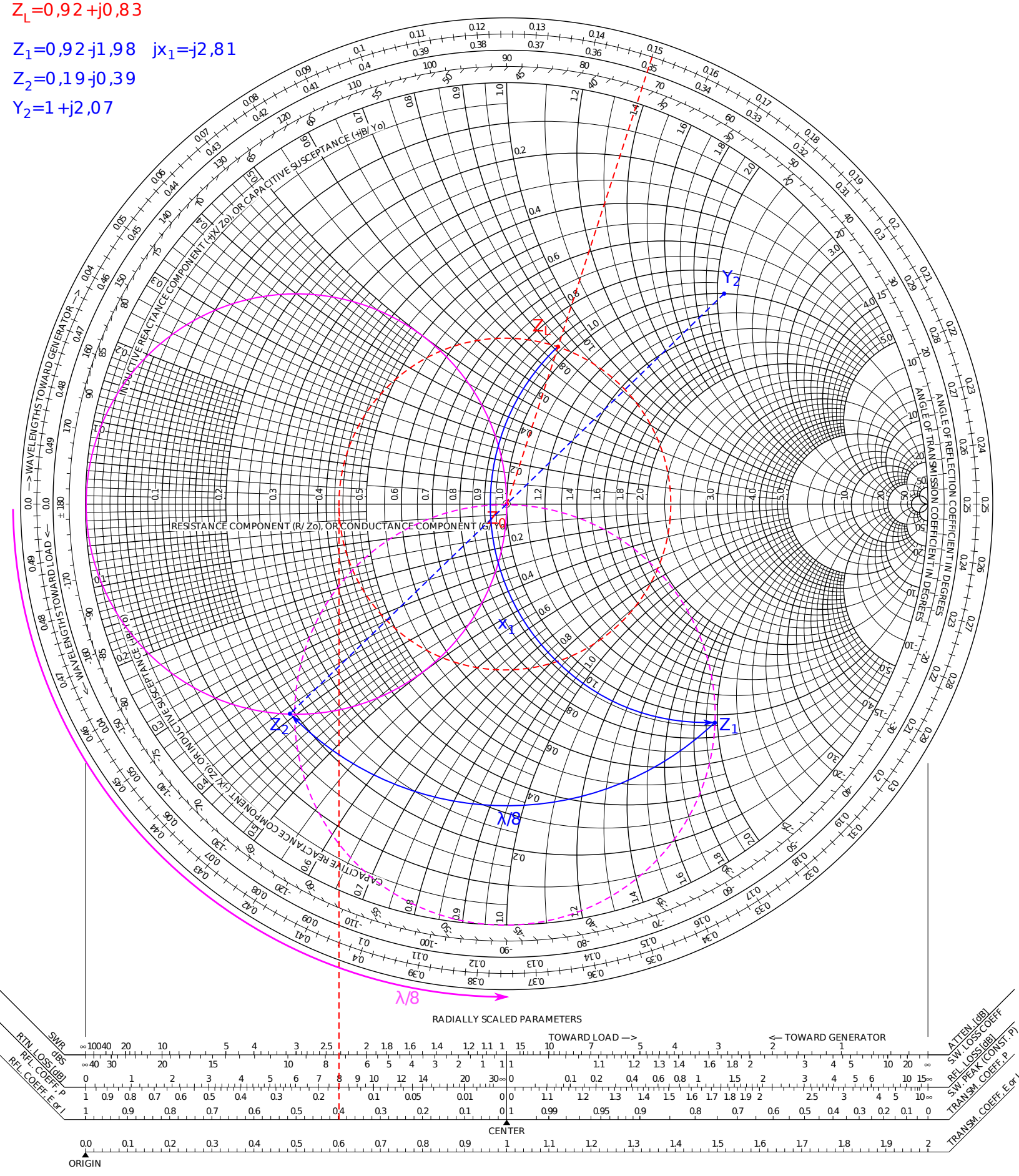
ORIGIN

$Z_L = 0{,}92 + j0{,}83$

$Z_1 = 0{,}92 - j1{,}98$ $\quad jx_1 = -j2{,}81$

$Z_2 = 0{,}19 - j0{,}39$

$Y_2 = 1 + j2{,}07$



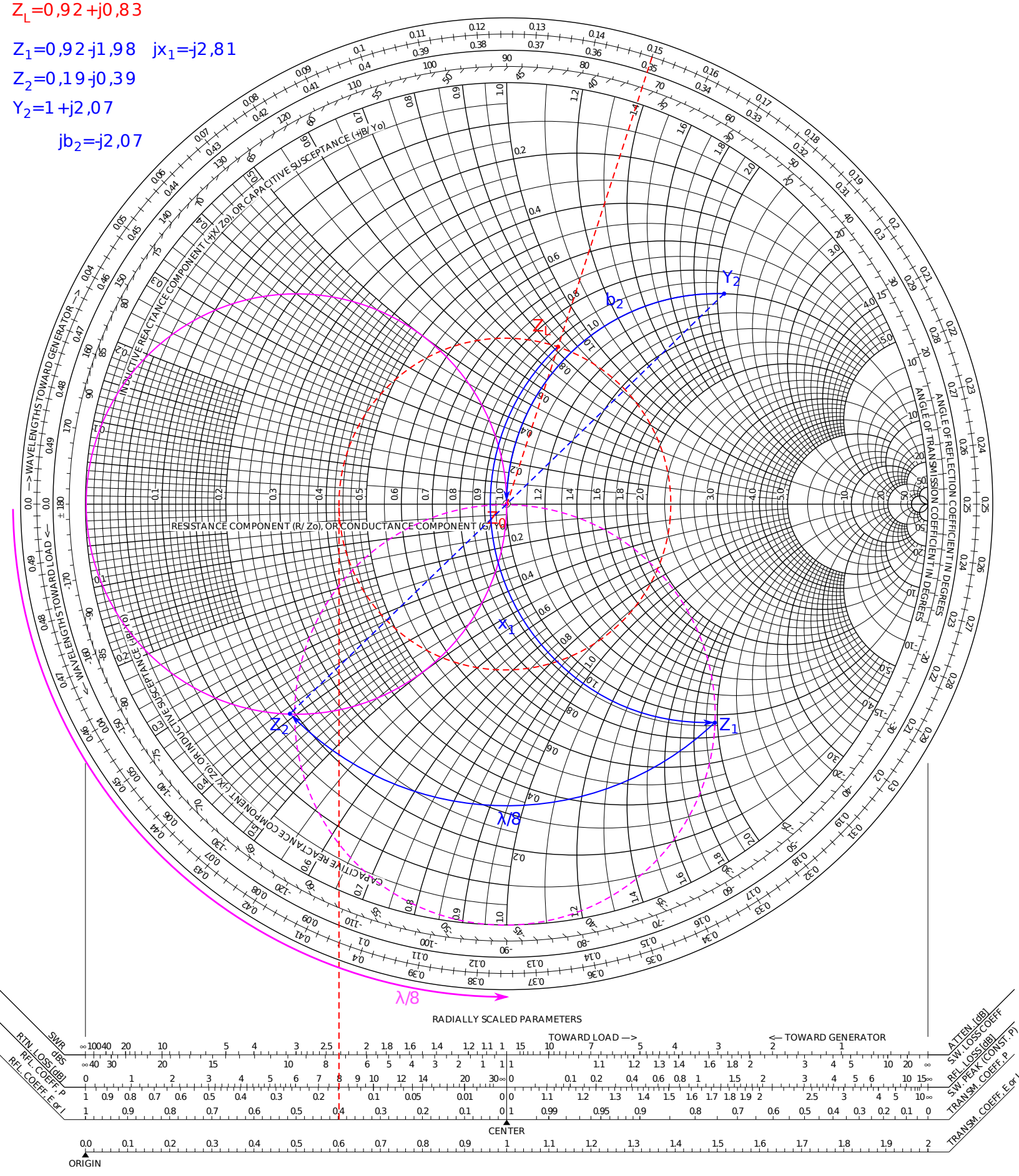
$Z_L = 0{,}92 + j0{,}83$

$Z_1 = 0{,}92 - j1{,}98$ $\quad jx_1 = -j2{,}81$

$Z_2 = 0{,}19 - j0{,}39$

$Y_2 = 1 + j2{,}07$

$jb_2 = -j2{,}07$



RADIALLY SCALED PARAMETERS

TOWARD LOAD —> <— TOWARD GENERATOR

SWR

RTN. LOSS (dB)

RFL. COEFF.: P

RFL. COEFF.: E or I

ATTEN. (dB)

SW. LOSS COEFF

RFL. LOSS (dB)

SW. PEAK (CONST. P)

TRANSM. COEFF.: P

TRANSM. COEFF.: E or I

CENTER

ORIGIN