

## Pretvorbe parametara dvoprolazne mreže

	[S]	[Z]	[Y]	[ABCD]
S 11	S 11	$\frac{(z_{11}-Z_0)(z_{22}+Z_0)-z_{12}z_{21}}{(z_{11}+Z_0)(z_{22}+Z_0)-z_{12}z_{21}}$	$\frac{(Y_0 - y_{11})(Y_0 + y_{22}) + y_{12} y_{21}}{(Y_0 + y_{11})(Y_0 + y_{22}) - y_{12} y_{21}}$	$\frac{A + B/Z_0 - CZ_0 - D}{A + B/Z_0 + CZ_0 + D}$
S 12	$S_{12}$	$\frac{2z_{12}Z_0}{(z_{11}+Z_0)(z_{22}+Z_0)-z_{12}z_{21}}$	$\frac{-2y_{12}Y_0}{(Y_0+y_{11})(Y_0+y_{22})-y_{12}y_{21}}$	$\frac{2(AD - BC)}{A + B/Z_0 + CZ_0 + D}$
S 21	$S_{21}$	$\frac{2z_{21}Z_0}{(z_{11}+Z_0)(z_{22}+Z_0)-z_{12}z_{21}}$	$\frac{-2y_{21}Y_0}{(Y_0+y_{11})(Y_0+y_{22})-y_{12}y_{21}}$	$\frac{2}{A+B/Z_0+CZ_0+D}$
S 22	$S$ $_{22}$	$\frac{(z_{11} + Z_0)(z_{22} - Z_0) - z_{12}z_{21}}{(z_{11} + Z_0)(z_{22} + Z_0) - z_{12}z_{21}}$	$\frac{(Y_0 + y_{11})(Y_0 - y_{22}) + y_{12}y_{21}}{(Y_0 + y_{11})(Y_0 + y_{22}) - y_{12}y_{21}}$	$\frac{-A + B/Z_0 - CZ_0 + D}{A + B/Z_0 + CZ_0 + D}$
z <sub>11</sub>	$Z_0 \frac{(1+S_{11})(1-S_{22})+S_{12}S_{21}}{(1-S_{11})(1-S_{22})-S_{12}S_{21}}$	$z_{11}$	$\frac{y_{22}}{y_{11}y_{22} - y_{12}y_{21}}$	$\frac{A}{C}$
z <sub>12</sub>	$Z_0 \frac{2S_{12}}{(1 - S_{11})(1 - S_{22}) - S_{12}S_{21}}$	$z_{12}$	$\frac{-y_{12}}{y_{11}y_{22}-y_{12}y_{21}}$	$\frac{AD - BC}{C}$ $\frac{1}{C}$
z <sub>21</sub>	$Z_0 \frac{2S_{21}}{(1 - S_{11})(1 - S_{22}) - S_{12}S_{21}}$	$Z_{21}$	$\frac{-y_{21}}{y_{11}y_{22}-y_{12}y_{21}}$	$\frac{1}{C}$
Z <sub>22</sub>	$Z_0 \frac{(1 - S_{11})(1 + S_{22}) + S_{12}S_{21}}{(1 - S_{11})(1 - S_{22}) - S_{12}S_{21}}$	Z <sub>22</sub>	$\frac{y_{11}}{y_{11}y_{22} - y_{12}y_{21}}$	$\frac{D}{C}$
y <sub>11</sub>	$Y_0 \frac{(1 - S_{11})(1 + S_{22}) + S_{12}S_{21}}{(1 + S_{11})(1 + S_{22}) - S_{12}S_{21}}$	$\frac{z_{22}}{z_{11}z_{22}-z_{12}z_{21}}$	<b>y</b> 11	$\frac{D}{B}$
y <sub>12</sub>	$Y_0 \frac{-2S_{12}}{(1+S_{11})(1+S_{22})-S_{12}S_{21}}$	$\frac{-z_{12}}{z_{11}z_{22}-z_{12}z_{21}}$	${\cal Y}_{12}$	$\frac{BC - AD}{B}$
y <sub>21</sub>	$Y_0 \frac{-2S_{21}}{(1+S_{11})(1+S_{22})-S_{12}S_{21}}$	$\frac{-z_{21}}{z_{11}z_{22}-z_{12}z_{21}}$	${\cal Y}_{21}$	$-\frac{1}{B}$
y 22	$Y_0 \frac{(1+S_{11})(1-S_{22})+S_{12}S_{21}}{(1+S_{11})(1+S_{22})-S_{12}S_{21}}$	$\frac{z_{11}}{z_{11}z_{22}-z_{12}z_{21}}$	y <sub>22</sub>	$\frac{A}{B}$
A	$\frac{(1+S_{11})(1-S_{22})+S_{12}S_{21}}{2S_{21}}$	$\frac{z_{11}}{z_{21}}$	$-\frac{y_{22}}{y_{21}}$	A
В	$Z_0 \frac{(1+S_{11})(1+S_{22}) - S_{12}S_{21}}{2S_{21}}$	$\frac{z_{11}z_{22}-z_{12}z_{21}}{z_{21}}$	$-\frac{1}{y_{21}}$	В
C	$\frac{1}{Z_0} \frac{(1 - S_{11})(1 - S_{22}) - S_{12}S_{21}}{2S_{21}}$	$\frac{1}{z_{21}}$	$\frac{y_{12} y_{21} - y_{11} y_{22}}{y_{21}}$	С
D	$\frac{(1-S_{11})(1+S_{22})+S_{12}S_{21}}{2S_{21}}$	$\frac{Z_{22}}{Z_{21}}$	_ <u>y11</u> y <sub>21</sub>	D