Reflection Coefficients and VSWR of selected loads

Reflection Coefficient (Γ) = $\frac{(Z_L - Z_0)}{(Z_L + Z_0)}$ = $|\Gamma|\ e^{j\phi}$

Type of Load	Γ	$\lvert\Gamma\rvert$	ϕ(degrees)	VSWR = (1+$\lvert\Gamma\rvert$) / (1- $\lvert\Gamma\rvert$)	
Open Circuit $Z_L = \infty$	1	1	0	∞	True Standing Wave
Short Circuit $Z_L = 0$	-1	1	180	∞	True Standing Wave
Pure Reactance Load $Z_L = jX_L$		1		∞	True Standing Wave
Perfectly Matched Load $Z_L = Z_0$	0	0		1	Travelling Wave
$Z_L = R_L$ and $R_L > Z_0$	$(R_L - Z_o)/(R_L + Z_o)$		0	R_L / Z_0	Standing Wave
$Z_L = R_L$ and $R_L < Z_0$	$(R_L - Z_o)/(R_L + Z_o)$		180	Z_0 / R_L	Standing Wave
$Z_L = R_L + j\ X_L$					Standing Wave