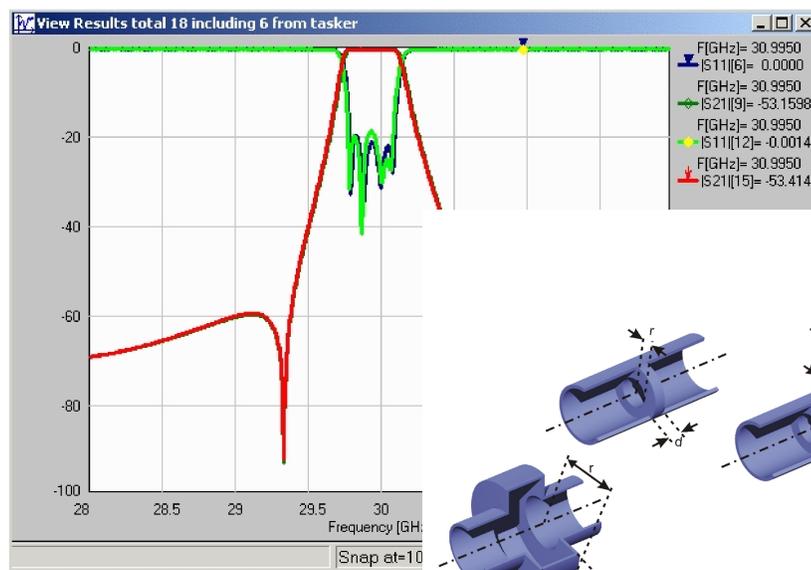


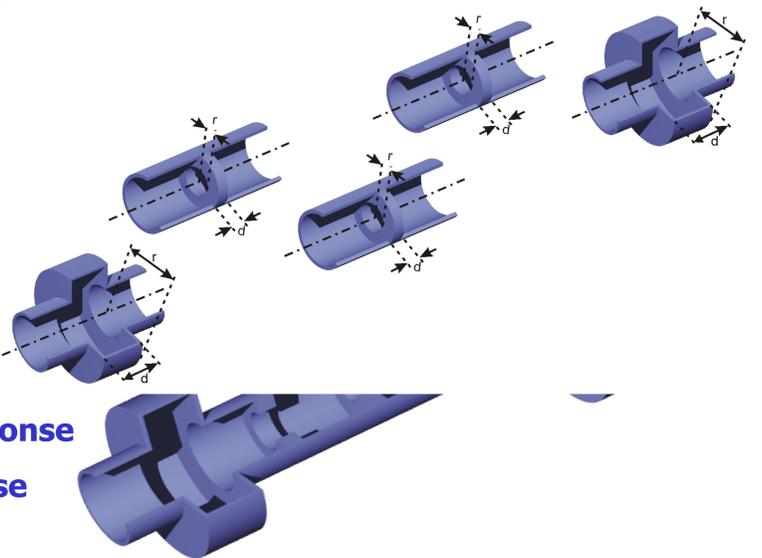
QWED

Examples of model extraction

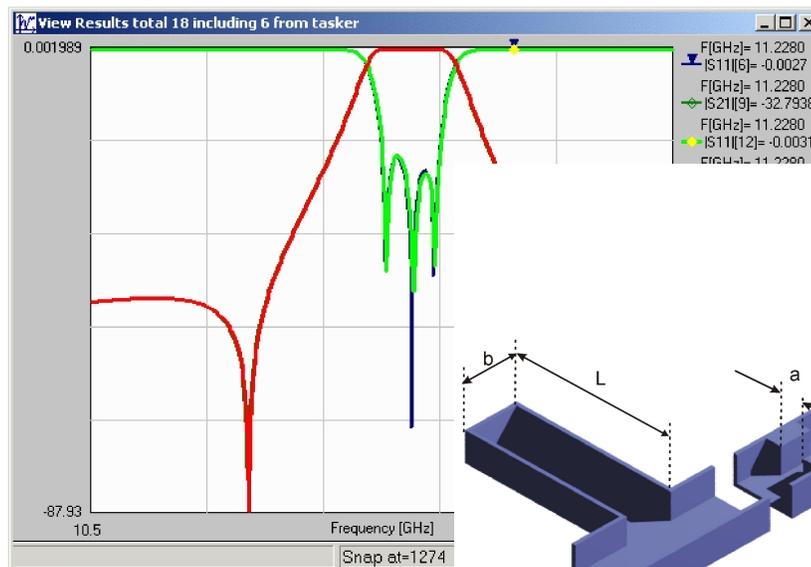
Cylindrical waveguide filter with frequency-dependent couplings and its response computed by **QW-V2D** and by circuit simulator based on models extracted from EM simulation.



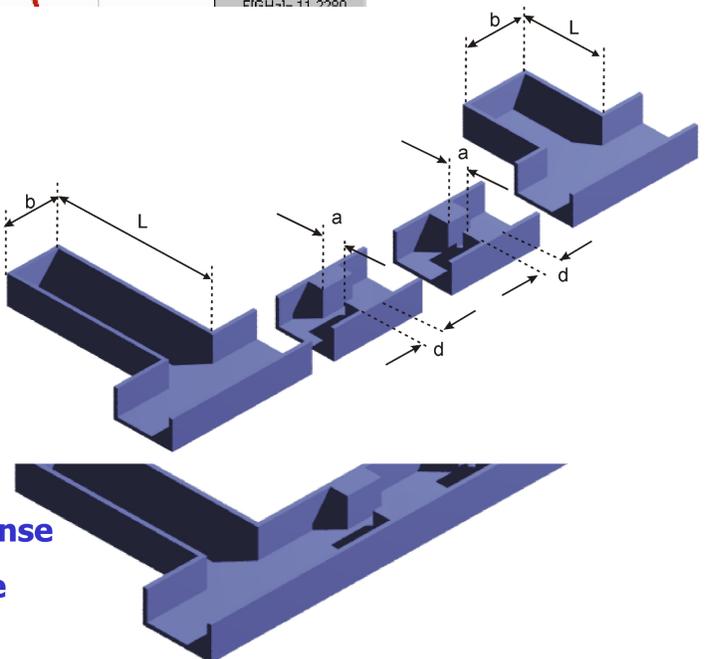
— Circuit simulator response
— EM simulator response



Rectangular waveguide filter with frequency-dependent couplings and its response computed by **QW-3D** and by circuit simulator based on models extracted from EM simulation.



— Circuit simulator response
— EM simulator response



cyva0 Part of a vertical cylinder (MP/BP)	cyva1 Rotated vertical cylinder (MP/BP)	el Full ellipsoid sliced with combined or regular elements (BP)	htapb Rectangular waveguide horizontal taper (BP)	lic Horizontal curved cylinder (BP)	lih Horizontal cylinder (BP)
lirot Inclined cylinder (BP)	lt Horizontal taper (BP)	ltrot Inclined taper (BP)	roure Rectangle with rounded corners	solid Rectangular waveguide (MP/BP)	sp Full sphere sliced with combined (BP) or regular elements
sph Half of sphere (BP)	threeel Example of three elements	torusv Vertical quarter torus (BP)	torw Full vertical torus (BP)	tvao Part of a vertical taper (MP/BP)	tvo Vertical taper (MP/BP)
ct1d Tee junction of coaxial lines with 1 dielectric (BP)	ct2d Tee junction of two coaxial lines with 2 dielectrics (BP)	ct3d Tee junction of coaxial lines with 3 dielectrics (BP)	cx1d Junction of coaxial lines with 1 dielectric (BP)	cx2d Junction of coaxial lines with 2 dielectrics (BP)	cx3d Junction of coaxial lines with 3 dielectrics (BP)
lic1d Curved coaxial line with 1 dielectric (BP)	lic2d Curved coaxial line with 2 dielectrics (BP)	lic3d Curved coaxial line with 3 dielectrics (BP)	lih1d Coaxial line with 1 dielectric (BP)	lih2d Coaxial line with 2 dielectrics (BP)	lih3d Coaxial line with 3 dielectrics (BP)
lith1d Tapered coaxial line with 1 dielectric (BP)	pcxv1d Vertical coax with 1 dielectric	pcxv3d Vertical coax with 3 dielectrics	perfv Vertical perforated coaxial support	tv1d Vertical coax taper with 1 dielectric	tv3d Vertical coax taper with 3 dielectrics
bcc1 Convex bi-spherical vertical lens (BP)	bcc2 Bi-convex spherical vertical lens (BP)	bpc1 Plano-convex spherical vertical lens (BP)	bplate2 Plate divided or no into 2 parts	bplate3 Plate divided into 3 parts	bplater Bain
helixva Vertical helix (BP)	helixvb Vertical helix with horizontal i/o wires (BP)	helixvh Vertical helix restricted by two planes (BP)	helixvr Vertical ribbon helix (BP) restricted by two planes	helixv Vertical ribbon helix (BP) restricted by two planes	hsausager Curved sausage with rounded ends (BP)
iwg2 Rectangular wgv. in air with dielectric inset (MP/BP)	pizza 2-layered pizza	sausage Sausage with rounded ends (BP)	sauschee2 N sausages with cylindrical inserts and rounded ends (BP)	sauschee Sausage with cylindrical insert and rounded ends (BP)	segg Egg (BP)
horn1 Rectangular waveguide horn (vertical)	horn1h Rectangular waveguide horn, horizontal in air	horn1hr Rectangular waveguide horn, horizontal in air with user-defined ridges	horn1hra Rectangular wgv. horn, horizontal in air with user-defined ridges	horn1i Rectangular wgv. horn with triangular dielectric inserts (vertical)	horncor Rectangular conungated horn (vertical)
horn2 Circular waveguide horn, horizontal in metal (BP) with user-defined rid	horn2a Rectangular waveguide horn, horizontal in metal with user-defined ridges	horn2b Rectangular waveguide horn, horizontal in metal (BP)	horn2c Circular waveguide horn, horizontal in metal (BP)	horn2d Circular waveguide horn, horizontal in metal (BP) with ridges	horn2e Circular waveguide horn, horizontal in metal (BP) with ridges
horn3g1 Rectangular wide-band horn with user-defined ridges (BP)	horn3g2 Circular horn antenna, vertical in air (BP)	horn3g3 Circular horn antenna, vertical in air	horn3g4 Circular horn antenna with ridges, vertical in air	horn3g5 Rectangular waveguide with ridges, vertical in air	patch1 Circular patch antenna
msb Microstrip bridge	msba Microstrip line bend (arbitrary angle)	msbr Microstrip line right bend	msbw Wire bridge	msc Microstrip curved line	msep Microstrip capacitor
msd Microstrip circuit (from file)	msi Microstrip inductor	msl Microstrip line	mslc Coupled microstrip lines of the same impedance	mslca Microstrip coupled lines (user-defined shape)	mslct Microstrip tee-junction of lines of the same impedance
mslctd Microstrip tee-junction of lines of the different impedances	mslcl Microstrip junction of line of the different impedances	msls Microstrip line shorted	mslz Microstrip zig-zag line	mslztst Microstrip zig-zag line	msep Planar circular patch
awgfil Waveguide filter n=3-7 symmetric risers	awsept3m Septum polarizer with 3 steps and phase ridge	brs1 Comb-line resonator rounded	bwgas Waveguide filter n=3-7 asymmetric risers	e2step Vertical coax step with ports	cheat Circular waveguide for heating with linear or circular polarization
cintdig2 Three to seven resonator interdigital filter without risers	combw1 Three to seven resonator comb-line filter without risers	covenv Microwave domestic oven with vertical feeding waveguide	h2total Horn_2 total project	plwntf Plane wave box surrounded by NTF box and absorbing box	rhornvcaq Hornvca in NTF box with quarter of the structure meshed due to sym
tdr1 magnetic plane	tdualn4 Microstrip dual mode filter n=4	tjcou2 Dielectric waveguide 3-dB coupler with 7 ports	whexcwg Circular waveguide with excitation port	whthrb_flare Throat base & flare version 2m	wmux2 Comb-line diplexer