

Antenna Models:

These antenna model files appeared as appendices to ARRL's technical filings with the FCC on ET-03-104, the FCC Notice of Inquiry on Broadband Over Power Lines.

Methods of Feeding Overhead Electrical Power-Line Distribution Lines With BPL Signals and the Relationship of These Methods to the Radiated Emissions of the Conductors

Author: Ed Hare, ARRL Laboratory Manager

Date: July 7, 2003

Appendix A: Sample NEC files for the models used for this analysis

DIFF14.NEC

CM Differential, 2 phase, 14 MHz

CE

GW 1,11,105.,31.,10.,95.,31.,10.,.00635

GW 2,11,105.,-22.34,30.,95.,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,1.,10.,0.,1.,10.,.00635

GW 6,95,0.,1.,10.,100.,1.,10.,.00635

GW 7,3,100.,0.,10.,100.,1.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,0.,.05.,.00635

GW 12,11,0.,0.,.05,0.,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,0.,.05.,.00635

GE 1

LD 4,1,6,6,50.,0.

LD 4,2,6,6,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,14.

GN 2,0,0,0,13.,.005

EX 0,7,2,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NE 0,401,1,1,-200.,30.,10.,1.,0.,0.

EN

GND14.NEC

CM 1 phase to ground, 14 MHz

CE

GW 1,11,105.,31.,10.,95.,31.,10.,.00635

GW 2,11,105.,-22.34,30.,95.,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,1.,10.,0.,1.,10.,.00635

GW 6,95,0.,1.,10.,100.,1.,10.,.00635

GW 7,3,100.,0.,10.,100.,1.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,0.,.05.,.00635

GW 12,11,0.,0.,.05,0.,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,0.,.05.,.00635

GE 1

LD 4,1,6,6,50.,0.

LD 4,2,6,6,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,14.

GN 2,0,0,0,13.,.005

EX 0,9,1,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NE 0,401,1,1,-200.,30.,10.,1.,0.,0.

EN

DIP14.NEC

CM Differential, 1 phase, 14 MHz

CE

GW 1,11,105.,31.,10.,95.,31.,10.,.00635

GW 2,11,105.,-22.34,30.,95.,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,1.,10.,0.,1.,10.,.00635

GW 6,95,0.,1.,10.,100.,1.,10.,.00635

GW 7,3,100.,0.,10.,100.,1.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,0.,.05.,.00635

GW 12,11,0.,0.,.05,0.,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,0.,.05.,.00635

GE 1

LD 4,1,6,6,50.,0.

LD 4,2,6,6,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,14.

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NH 0,200,1,1,1.,-10.,10.,1.,0.,0.

EN

DIFF3R5.NEC

CM Differential, 2 phase, 3.5 MHz

CE

GW 1,11,120.516,32.9771,10.,79.4021,33.,10.,00635

GW 2,11,120.516,-22.34,30.,79.4021,-22.34,30.,00635

GW 3,95,-100.,0.,10.,0.,0.,10.,00635

GW 4,95,0.,0.,10.,100.,0.,10.,00635

GW 5,95,-100.,3.,10.,0.,3.,10.,00635

GW 6,95,0.,3.,10.,100.,3.,10.,00635

GW 7,3,100.,0.,10.,100.,3.,10.,00635

GW 8,3,-100.,0.,10.,-100.,3.,10.,00635

GW 9,11,0.,0.,10.,0.,0.,05.,00635

GW 10,11,0.,0.,05,0.,10.,05.,00635

GW 11,11,0.,0.,05,-10.,0.,05.,00635

GW 12,11,0.,0.,05,0.,-10.,05.,00635

GW 13,11,0.,0.,05,10.,0.,05.,00635

GE 1

LD 4,1,6,6,50.,0.

LD 4,2,6,6,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,3.5

GN 2,0,0,0,13.,005

EX 0,7,2,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NE 0,401,1,1,-200.,30.,10.,1.,0.,0.

EN

GND3R5.NEC

CM 1 phase to ground, 3.5 MHz

CE

GW 1,11,120.516,32.9771,10.,79.4021,33.,10.,.00635
GW 2,11,120.516,-22.34,30.,79.4021,-22.34,30.,.00635
GW 3,95,-100.,0.,10.,0.,0.,10.,.00635
GW 4,95,0.,0.,10.,100.,0.,10.,.00635
GW 5,95,-100.,3.,10.,0.,3.,10.,.00635
GW 6,95,0.,3.,10.,100.,3.,10.,.00635
GW 7,3,100.,0.,10.,100.,3.,10.,.00635
GW 8,3,-100.,0.,10.,-100.,3.,10.,.00635
GW 9,11,0.,0.,10.,0.,0.,.05.,.00635
GW 10,11,0.,0.,.05,0.,10.,.05.,.00635
GW 11,11,0.,0.,.05,-10.,0.,.05.,.00635
GW 12,11,0.,0.,.05,0.,-10.,.05.,.00635
GW 13,11,0.,0.,.05,10.,0.,.05.,.00635

GE 1

LD 4,1,6,6,50.,0.
LD 4,2,6,6,50.,0.
LD 4,7,2,2,50.,0.
LD 4,8,2,2,50.,0.
LD 5,1,0,0,5.7471E+7,1.
LD 5,2,0,0,5.7471E+7,1.
LD 5,3,0,0,5.7471E+7,1.
LD 5,4,0,0,5.7471E+7,1.
LD 5,5,0,0,5.7471E+7,1.
LD 5,6,0,0,5.7471E+7,1.
LD 5,7,0,0,5.7471E+7,1.
LD 5,8,0,0,5.7471E+7,1.
LD 5,9,0,0,5.7471E+7,1.
LD 5,10,0,0,5.7471E+7,1.
LD 5,11,0,0,5.7471E+7,1.
LD 5,12,0,0,5.7471E+7,1.
LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,3.5

GN 2,0,0,0,13.,.005

EX 0,9,1,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NE 0,401,1,1,-200.,30.,10.,1.,0.,0.

EN

DIP3R5.NEC

CM Differential 1 phase, 3.5 MHz

CE

GW 1,11,120.516,32.9771,10.,79.4021,33.,10.,00635

GW 2,11,120.516,-22.34,30.,79.4021,-22.34,30.,00635

GW 3,95,-100.,0.,10.,0.,0.,10.,00635

GW 4,95,0.,0.,10.,100.,0.,10.,00635

GW 5,95,-100.,3.,10.,0.,3.,10.,00635

GW 6,95,0.,3.,10.,100.,3.,10.,00635

GW 7,3,100.,0.,10.,100.,3.,10.,00635

GW 8,3,-100.,0.,10.,-100.,3.,10.,00635

GW 9,11,0.,0.,10.,0.,0.,05.,00635

GW 10,11,0.,0.,05,0.,10.,05.,00635

GW 11,11,0.,0.,05,-10.,0.,05.,00635

GW 12,11,0.,0.,05,0.,-10.,05.,00635

GW 13,11,0.,0.,05,10.,0.,05.,00635

GE 1

LD 4,1,6,6,50.,0.

LD 4,2,6,6,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,3.5

GN 2,0,0,0,13.,005

EX 0,6,48,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NE 0,401,1,1,-200.,30.,10.,1.,0.,0.

EN

Electric and Magnetic Fields Near Physically Large Radiators

Author: Ed Hare, ARRL Laboratory Manager Date: July 7, 2003

Appendix A: Sample NEC files for the models used in this analysis.

DIP3R5.NEC

CM Differential 1 phase, 3.5 MHz

CE

GW 1,11,120.516,32.9771,10.,79.4021,33.,10.,.00635

GW 2,11,120.516,-22.34,30.,79.4021,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,3.,10.,0.,3.,10.,.00635

GW 6,95,0.,3.,10.,100.,3.,10.,.00635

GW 7,3,100.,0.,10.,100.,3.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,3.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,0.,.05.,.00635

GW 12,11,0.,0.,.05,0.,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,0.,.05.,.00635

GE 1

LD 4,1,6,6,50.,0.

LD 4,2,6,6,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,3.5

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NE 0,401,1,1,-200.,30.,10.,1.,0.,0.

EN

DIP14.NEC

CM Differential, 1 phase, 14 MHz

CE

GW 1,11,105.,31.,10.,95.,31.,10.,.00635

GW 2,11,105.,-22.34,30.,95.,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,1.,10.,0.,1.,10.,.00635

GW 6,95,0.,1.,10.,100.,1.,10.,.00635

GW 7,3,100.,0.,10.,100.,1.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,.0.,.05.,.00635

GW 12,11,0.,0.,.05,0.,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,.0.,.05.,.00635

GE 1

LD 4,1,6,6,50.,0.

LD 4,2,6,6,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,14.

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NH 0,200,1,1,1.,-10.,10.,1.,0.,0.

EN

COMP20M.NEC

CM Complex power distribution

CE

GW 1,95,-100.,0.,10.,0.,0.,10.,.00635
GW 2,95,0.,0.,10.,101.,0.,10.,.00635
GW 3,95,-101.,1.,10.,0.,1.,10.,.00635
GW 4,95,0.,1.,10.,100.,1.,10.,.00635
GW 5,95,-100.,0.,10.,-100.,-100.,11.,.00635
GW 6,95,-101.,1.,10.,-101.,-100.,11.,.00635
GW 7,3,-100.,-100.,11.,-101.,-100.,11.,.00635
GW 8,95,101.,0.,10.,101.,100.,11.,.00635
GW 9,95,100.,1.,10.,100.,100.,11.,.00635
GW 10,3,101.,100.,11.,100.,100.,11.,.00635
GW 11,31,0.,0.,10.,0.,0.,.05.,.00635
GW 12,11,0.,0.,.05,0.,10.,.05.,.00635
GW 13,11,0.,0.,.05,-10.,0.,.05.,.00635
GW 14,11,0.,0.,.05,0.,-10.,.05.,.00635
GW 15,11,0.,0.,.05,10.,0.,.05.,.00635

GE 1

LD 5,1,0,0,5.7471E+7,1.
LD 5,2,0,0,5.7471E+7,1.
LD 5,3,0,0,5.7471E+7,1.
LD 5,4,0,0,5.7471E+7,1.
LD 5,5,0,0,5.7471E+7,1.
LD 5,6,0,0,5.7471E+7,1.
LD 5,7,0,0,5.7471E+7,1.
LD 5,8,0,0,5.7471E+7,1.
LD 5,9,0,0,5.7471E+7,1.
LD 5,10,0,0,5.7471E+7,1.
LD 5,11,0,0,5.7471E+7,1.
LD 5,12,0,0,5.7471E+7,1.
LD 5,13,0,0,5.7471E+7,1.
LD 5,14,0,0,5.7471E+7,1.
LD 5,15,0,0,5.7471E+7,1.

FR 0,1,0,0,14.

GN 2,0,0,0,13.,.005

EX 0,4,48,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NH 0,401,1,1,-200.,-30.,10.,1.,0.,0.

EN

Power Lines as Antennas From 100 kHz to 50 MHz

Author: Ed Hare, ARRL Laboratory Manager

Date: July 7, 2003

Appendix A: Example NEC files used for calculations in this paper/

DIP5.NEC

CM Differential, 1 phase, 5 MHz

CE

GW 1,15,120.516,32.9771,10.,79.4021,33.,10.,.00635

GW 2,15,120.516,-22.34,30.,79.4021,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,3.,10.,0.,3.,10.,.00635

GW 6,95,0.,3.,10.,100.,3.,10.,.00635

GW 7,3,100.,0.,10.,100.,3.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,3.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,0.,.05.,.00635

GW 12,11,0.,0.,.05,0.,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,0.,.05.,.00635

GE 1

LD 4,1,8,8,50.,0.

LD 4,2,8,8,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,5.

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NE 0,201,1,1,-100.,30.,10.,1.,0.,.3048

EN

PL2MHZ.NEC

CM Differential, 1 phase, 2 MHz

CE

GW 1,1,-100.,0.,10.,-100.,1.,10.,.0127

GW 2,34,-100.,0.,10.,0.,0.,10.,.0127

GW 3,34,0.,0.,10.,100.,0.,10.,.0127

GW 4,4,0.,0.,10.,0.,0.,.01.0127

GW 5,2,0.,0.,.1,0.,5.,.1.,.0127

GW 6,2,0.,0.,.1,-5.,0.,.1.,.0127

GW 7,2,0.,0.,.1,0.,-5.,.1.,.0127

GW 8,2,0.,0.,.1,5.,0.,.1.,.0127

GW 9,67,-100.,1.,10.,100.,1.,10.,.0127

GW 10,1,100.,0.,10.,100.,1.,10.,.0127

GE 1

LD 4,1,1,1,50.,0.

LD 4,10,1,1,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

FR 0,1,0,0,2.

GN 2,0,0,0,13.,.005

EX 0,9,17,0.,9999999,0.

RP 0,91,90,1000,90.,0.,-2.,.2.,0.

NH 0,1,32,1,-58.,6.,10.,1.,3.,0.

EN

PWRLINE10.EZ

CM NEC-4 input file <Dipole11.IN>

CE

GW 1,1,-100.,0.,10.,-100.,1.,10.,.0127

GW 2,31,-100.,0.,10.,0.,0.,10.,.0127

GW 3,31,0.,0.,10.,100.,0.,10.,.0127

GW 4,1,0.,0.,10.,0.,0.,.01.0127

GW 5,1,0.,0.,.1,0.,5.,.1.,.0127

GW 6,1,0.,0.,.1,-5.,-4.371E-7,.1.,.0127

GW 7,1,0.,0.,.1,5.9624E-8,-5.,.1.,.0127

GW 8,1,0.,0.,.1,5.,8.7423E-7,.1.,.0127

GW 9,31,-100.,1.,10.,100.,1.,10.,.0127

GW 10,1,100.,0.,10.,100.,1.,10.,.0127

GE 1

LD 4 ,1,1,1,50.,0.

LD 4 ,10,1,1,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

FR 0,1,0,0,1.

GN 2,0,0,0,13.,.005

EX 0,9,8,0.,9999999,0.

RP 0,46,181,1001,0.,0.,2.,2.,0.

NH 0,1,32,1,-58.,6.,10.,1.,3.,0.

EN

DIPR1.EZ

CM Differential, 1 phase, 0.1 MHz

CE

GW 1,2,-100.,0.,10.,0.,0.,10.,.00635

GW 2,2,0.,0.,10.,100.,0.,10.,.00635

GW 3,2,-100.,1.,10.,0.,1.,10.,.00635

GW 4,2,0.,1.,10.,100.,1.,10.,.00635

GW 5,1,100.,0.,10.,100.,1.,10.,.00635

GW 6,1,-100.,0.,10.,-100.,1.,10.,.00635

GW 7,1,0.,0.,10.,0.,0.,.05.,.00635

GW 8,1,0.,0.,.05,0.,.5.,.05.,.00635

GW 9,1,0.,0.,.05,-5.,0.,.05.,.00635

GW 10,1,0.,0.,.05,0.,-5.,.05.,.00635

GW 11,1,0.,0.,.05,5.,0.,.05.,.00635

GE 1

LD 4,5,1,1,50.,0.

LD 4,6,1,1,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

FR 0,1,0,0,.1

GN 2,0,0,0,13.,.005

EX 0,3,1,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NE 0,201,1,41,-200.,0.,0.,2.,0.,1.

EN

DIPR2.EZ

CM Differential, 1 phase, 0.2 MHz

CE

GW 1,3,-100.,0.,10.,0.,0.,10.,.00635

GW 2,3,0.,0.,10.,100.,0.,10.,.00635

GW 3,3,-100.,1.,10.,0.,1.,10.,.00635

GW 4,3,0.,1.,10.,100.,1.,10.,.00635

GW 5,3,100.,0.,10.,100.,1.,10.,.00635

GW 6,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 7,3,0.,0.,10.,0.,0.,.05.,.00635

GW 8,3,0.,0.,.05,0.,.5.,.05.,.00635

GW 9,3,0.,0.,.05,-5.,0.,.05.,.00635

GW 10,3,0.,0.,.05,0.,-5.,.05.,.00635

GW 11,3,0.,0.,.05,5.,0.,.05.,.00635

GE 1

LD 4,5,2,2,50.,0.

LD 4,6,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

FR 0,1,0,0,2

GN 2,0,0,0,13.,.005

EX 0,3,1,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NE 0,201,1,41,-200.,0.,0.,2.,0.,1.

EN

DIPR3.EZ

CM Differential, 1 phase, 0.3 MHz

CE

GW 1,4,-100.,0.,10.,0.,0.,10.,.00635

GW 2,4,0.,0.,10.,100.,0.,10.,.00635

GW 3,4,-100.,1.,10.,0.,1.,10.,.00635

GW 4,4,0.,1.,10.,100.,1.,10.,.00635

GW 5,3,100.,0.,10.,100.,1.,10.,.00635

GW 6,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 7,3,0.,0.,10.,0.,0.,.05.,.00635

GW 8,3,0.,0.,.05,0.,.5.,.05.,.00635

GW 9,3,0.,0.,.05,-5.,0.,.05.,.00635

GW 10,3,0.,0.,.05,0.,-5.,.05.,.00635

GW 11,3,0.,0.,.05,5.,0.,.05.,.00635

GE 1

LD 4,5,2,2,50.,0.

LD 4,6,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

FR 0,1,0,0,3

GN 2,0,0,0,13.,.005

EX 0,3,2,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NE 0,201,1,41,-200.,0.,0.,2.,0.,1.

EN

DIPR5.EZ

CM Differential, 1 phase, 0.5 MHz

CE

GW 1,4,-100.,0.,10.,0.,0.,10.,.00635

GW 2,4,0.,0.,10.,100.,0.,10.,.00635

GW 3,4,-100.,1.,10.,0.,1.,10.,.00635

GW 4,4,0.,1.,10.,100.,1.,10.,.00635

GW 5,3,100.,0.,10.,100.,1.,10.,.00635

GW 6,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 7,3,0.,0.,10.,0.,0.,.05.,.00635

GW 8,3,0.,0.,.05,0.,.5.,.05.,.00635

GW 9,3,0.,0.,.05,-5.,0.,.05.,.00635

GW 10,3,0.,0.,.05,0.,-5.,.05.,.00635

GW 11,3,0.,0.,.05,5.,0.,.05.,.00635

GE 1

LD 4,5,2,2,50.,0.

LD 4,6,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

FR 0,1,0,0,.5

GN 2,0,0,0,13.,.005

EX 0,3,2,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NE 0,201,1,41,-200.,0.,0.,2.,0.,1.

EN

DIPR8.EZ

CM Differential, 1 phase, 0.8 MHz

CE

GW 1,6,-100.,0.,10.,0.,0.,10.,.00635

GW 2,6,0.,0.,10.,100.,0.,10.,.00635

GW 3,6,-100.,1.,10.,0.,1.,10.,.00635

GW 4,6,0.,1.,10.,100.,1.,10.,.00635

GW 5,3,100.,0.,10.,100.,1.,10.,.00635

GW 6,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 7,3,0.,0.,10.,0.,0.,.05.,.00635

GW 8,3,0.,0.,.05,0.,.5.,.05.,.00635

GW 9,3,0.,0.,.05,-5.,0.,.05.,.00635

GW 10,3,0.,0.,.05,0.,-5.,.05.,.00635

GW 11,3,0.,0.,.05,5.,0.,.05.,.00635

GE 1

LD 4,5,2,2,50.,0.

LD 4,6,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

FR 0,1,0,0,.8

GN 2,0,0,0,13.,.005

EX 0,3,2,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NE 0,201,1,41,-200.,0.,0.,2.,0.,1.

EN

DIP1.EZ

CM Differential, 1 phase, 1 MHz

CE

GW 1,7,-100.,0.,10.,0.,0.,10.,.00635

GW 2,7,0.,0.,10.,100.,0.,10.,.00635

GW 3,7,-100.,1.,10.,0.,1.,10.,.00635

GW 4,7,0.,1.,10.,100.,1.,10.,.00635

GW 5,3,100.,0.,10.,100.,1.,10.,.00635

GW 6,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 7,3,0.,0.,10.,0.,0.,.05.,.00635

GW 8,3,0.,0.,.05,0.,.5.,.05.,.00635

GW 9,3,0.,0.,.05,-5.,0.,.05.,.00635

GW 10,3,0.,0.,.05,0.,-5.,.05.,.00635

GW 11,3,0.,0.,.05,5.,0.,.05.,.00635

GE 1

LD 4,5,2,2,50.,0.

LD 4,6,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

FR 0,1,0,0,1.

GN 2,0,0,0,13.,.005

EX 0,3,2,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NE 0,201,1,41,-200.,0.,0.,2.,0.,1.

EN

DIP1R8.EZ

CM Differential, 1 phase, 1.8 MHz

CE

GW 1,11,105.,31.,10.,95.,31.,10.,,00635

GW 2,11,105.,-22.34,30.,95.,-22.34,30.,,00635

GW 3,95,-100.,0.,10.,0.,0.,10.,,00635

GW 4,95,0.,0.,10.,100.,0.,10.,,00635

GW 5,95,-100.,1.,10.,0.,1.,10.,,00635

GW 6,95,0.,1.,10.,100.,1.,10.,,00635

GW 7,3,100.,0.,10.,100.,1.,10.,,00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,,00635

GW 9,11,0.,0.,10.,0.,0.,,05.,00635

GW 10,11,0.,0.,,05,0.,10.,,05.,00635

GW 11,11,0.,0.,,05,-10.,0.,,05.,00635

GW 12,11,0.,0.,,05,0.,-10.,,05.,00635

GW 13,11,0.,0.,,05,10.,0.,,05.,00635

GE 1

LD 4,1,6,6,50.,0.

LD 4,2,6,6,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,1.8

GN 2,0,0,0,13.,,005

EX 0,6,48,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,,0.

NH 0,200,1,1,1.,-10.,10.,1.,0.,0.

EN

DIP2.EZ

CM Differential, 1 phase, 2 MHz

CE

GW 1,11,105.,31.,10.,95.,31.,10.,,00635

GW 2,11,105.,-22.34,30.,95.,-22.34,30.,,00635

GW 3,95,-100.,0.,10.,0.,0.,10.,,00635

GW 4,95,0.,0.,10.,100.,0.,10.,,00635

GW 5,95,-100.,1.,10.,0.,1.,10.,,00635

GW 6,95,0.,1.,10.,100.,1.,10.,,00635

GW 7,3,100.,0.,10.,100.,1.,10.,,00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,,00635

GW 9,11,0.,0.,10.,0.,0.,,05.,00635

GW 10,11,0.,0.,,05,0.,10.,,05.,00635

GW 11,11,0.,0.,,05,-10.,0.,,05.,00635

GW 12,11,0.,0.,,05,0.,-10.,,05.,00635

GW 13,11,0.,0.,,05,10.,0.,,05.,00635

GE 1

LD 4,1,6,6,50.,0.

LD 4,2,6,6,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,2.

GN 2,0,0,0,13.,,005

EX 0,6,48,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,,0.

NH 0,200,1,1,1.,-10.,10.,1.,0.,0.

EN

DIP3R5.EZ

CM Differential 1 phase, 3.5 MHz

CE

GW 1,11,120.516,32.9771,10.,79.4021,33.,10.,,00635

GW 2,11,120.516,-22.34,30.,79.4021,-22.34,30.,,00635

GW 3,95,-100.,0.,10.,0.,0.,10.,,00635

GW 4,95,0.,0.,10.,100.,0.,10.,,00635

GW 5,95,-100.,3.,10.,0.,3.,10.,,00635

GW 6,95,0.,3.,10.,100.,3.,10.,,00635

GW 7,3,100.,0.,10.,100.,3.,10.,,00635

GW 8,3,-100.,0.,10.,-100.,3.,10.,,00635

GW 9,11,0.,0.,10.,0.,0.,,05.,00635

GW 10,11,0.,0.,,05,0.,10.,,05.,00635

GW 11,11,0.,0.,,05,-10.,0.,,05.,00635

GW 12,11,0.,0.,,05,0.,-10.,,05.,00635

GW 13,11,0.,0.,,05,10.,0.,,05.,00635

GE 1

LD 4,1,6,6,50.,0.

LD 4,2,6,6,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,3.5

GN 2,0,0,0,13.,,005

EX 0,6,48,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NE 0,401,1,1,-200.,30.,10.,1.,0.,0.

EN

DIP5R3.EZ

CM Differential, 1 phase, 5.3 MHz

CE

GW 1,15,120.516,32.9771,10.,79.4021,33.,10.,00635

GW 2,15,120.516,-22.34,30.,79.4021,-22.34,30.,00635

GW 3,95,-100.,0.,10.,0.,0.,10.,00635

GW 4,95,0.,0.,10.,100.,0.,10.,00635

GW 5,95,-100.,3.,10.,0.,3.,10.,00635

GW 6,95,0.,3.,10.,100.,3.,10.,00635

GW 7,3,100.,0.,10.,100.,3.,10.,00635

GW 8,3,-100.,0.,10.,-100.,3.,10.,00635

GW 9,11,0.,0.,10.,0.,0.,05.,00635

GW 10,11,0.,0.,05.,0.,10.,05.,00635

GW 11,11,0.,0.,05.,-10.,0.,05.,00635

GW 12,11,0.,0.,05.,0.,-10.,05.,00635

GW 13,11,0.,0.,05.,10.,0.,05.,00635

GE 1

LD 4,1,8,8,50.,0.

LD 4,2,8,8,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,5.3

GN 2,0,0,0,13.,005

EX 0,6,48,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NE 0,201,1,1,-100.,30.,10.,1.,0.,3048

EN

DIP7.EZ

CM Differential, 1 phase, 7 MHz

CE

GW 1,21,120.516,32.9771,10.,79.4021,33.,10.,00635
GW 2,21,120.516,-22.34,30.,79.4021,-22.34,30.,00635
GW 3,95,-100.,0.,10.,0.,0.,10.,00635
GW 4,95,0.,0.,10.,100.,0.,10.,00635
GW 5,95,-100.,3.,10.,0.,3.,10.,00635
GW 6,95,0.,3.,10.,100.,3.,10.,00635
GW 7,3,100.,0.,10.,100.,3.,10.,00635
GW 8,3,-100.,0.,10.,-100.,3.,10.,00635
GW 9,11,0.,0.,10.,0.,0.,05.,00635
GW 10,11,0.,0.,05,0.,10.,05.,00635
GW 11,11,0.,0.,05,-10.,0.,05.,00635
GW 12,11,0.,0.,05,0.,-10.,05.,00635
GW 13,11,0.,0.,05,10.,0.,05.,00635

GE 1

LD 4,1,11,11,50.,0.
LD 4,2,11,11,50.,0.
LD 4,7,2,2,50.,0.
LD 4,8,2,2,50.,0.
LD 5,1,0,0,5.7471E+7,1.
LD 5,2,0,0,5.7471E+7,1.
LD 5,3,0,0,5.7471E+7,1.
LD 5,4,0,0,5.7471E+7,1.
LD 5,5,0,0,5.7471E+7,1.
LD 5,6,0,0,5.7471E+7,1.
LD 5,7,0,0,5.7471E+7,1.
LD 5,8,0,0,5.7471E+7,1.
LD 5,9,0,0,5.7471E+7,1.
LD 5,10,0,0,5.7471E+7,1.
LD 5,11,0,0,5.7471E+7,1.
LD 5,12,0,0,5.7471E+7,1.
LD 5,13,0,0,5.7471E+7,1.
FR 0,1,0,0,7.
GN 2,0,0,0,13.,005
EX 0,6,48,0,1.414214,0.
RP 0,91,90,1000,90.,0.,-2.,2.,0.
NE 0,201,1,1,-100.,30.,10.,1.,0.,3048
EN

DIP10R1.EZ

CM Differential 1 phase 10.1 MHz

CE

GW 1,29,120.516,32.9771,10.,79.4021,33.,10.,00635

GW 2,29,120.516,-22.34,30.,79.4021,-22.34,30.,00635

GW 3,95,-100.,0.,10.,0.,0.,10.,00635

GW 4,95,0.,0.,10.,100.,0.,10.,00635

GW 5,95,-100.,3.,10.,0.,3.,10.,00635

GW 6,95,0.,3.,10.,100.,3.,10.,00635

GW 7,3,100.,0.,10.,100.,3.,10.,00635

GW 8,3,-100.,0.,10.,-100.,3.,10.,00635

GW 9,11,0.,0.,10.,0.,0.,05.,00635

GW 10,11,0.,0.,05.,0.,10.,05.,00635

GW 11,11,0.,0.,05.,-10.,0.,05.,00635

GW 12,11,0.,0.,05.,0.,-10.,05.,00635

GW 13,11,0.,0.,05.,10.,0.,05.,00635

GE 1

LD 4,1,15,15,50.,0.

LD 4,2,15,15,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,10.1

GN 2,0,0,0,13.,005

EX 0,6,48,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NE 0,201,1,1,-100.,30.,10.,1.,0.,3048

EN

DIP14.EZ

CM Differential, 1 phase, 14 MHz

CE

GW 1,11,105.,31.,10.,95.,31.,10.,.00635

GW 2,11,105.,-22.34,30.,95.,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,1.,10.,0.,1.,10.,.00635

GW 6,95,0.,1.,10.,100.,1.,10.,.00635

GW 7,3,100.,0.,10.,100.,1.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,0.,.05.,.00635

GW 12,11,0.,0.,.05,0.,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,0.,.05.,.00635

GE 1

LD 4,1,6,6,50.,0.

LD 4,2,6,6,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,14.

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NH 0,200,1,1,1.,-10.,10.,1.,0.,0.

EN

DIP18R1.EZ

CM Differential 1 phase, 18.1 MHz

CE

GW 1,13,81.2154,23.9779,7.73481,73.4806,23.9779,7.73481,.00491

GW 2,13,81.2154,-17.279,23.2044,73.4806,-17.279,23.2044,.00491

GW 3,129,-77.348,0.,7.73481,0.,0.,7.73481,.00491

GW 4,129,0.,0.,7.73481,77.348,0.,7.73481,.00491

GW 5,129,-77.348,.77348,7.73481,0.,.77348,7.73481,.00491

GW 6,129,0.,.77348,7.73481,77.348,.77348,7.73481,.00491

GW 7,3,77.348,0.,7.73481,77.348,.77348,7.73481,.00491

GW 8,3,-77.348,0.,7.73481,-77.348,.77348,7.73481,.00491

GW 9,13,0.,0.,7.73481,0.,0.,.03867,.00491

GW 10,13,0.,0.,.03867,0.,7.73481,.03867,.00491

GW 11,13,0.,0.,.03867,-7.7348,0.,.03867,.00491

GW 12,13,0.,0.,.03867,0.,-7.7348,.03867,.00491

GW 13,13,0.,0.,.03867,7.73481,0.,.03867,.00491

GE 1

LD 4,1,7,7,50.,0.

LD 4,2,7,7,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,18.1

GN 2,0,0,0,13.,.005

EX 0,6,65,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NH 0,401,1,1,-200.,-10.,10.,1.,0.,.3048

EN

DIP21.EZ

CM Differential, 1 phase, 21 MHz

CE

GW 1,13,81.2154,23.9779,7.73481,73.4806,23.9779,7.73481,.00491

GW 2,13,81.2154,-17.279,23.2044,73.4806,-17.279,23.2044,.00491

GW 3,129,-77.348,0.,7.73481,0.,0.,7.73481,.00491

GW 4,129,0.,0.,7.73481,77.348,0.,7.73481,.00491

GW 5,129,-77.348,.77348,7.73481,0.,.77348,7.73481,.00491

GW 6,129,0.,.77348,7.73481,77.348,.77348,7.73481,.00491

GW 7,3,77.348,0.,7.73481,77.348,.77348,7.73481,.00491

GW 8,3,-77.348,0.,7.73481,-77.348,.77348,7.73481,.00491

GW 9,13,0.,0.,7.73481,0.,0.,.03867,.00491

GW 10,13,0.,0.,.03867,0.,7.73481,.03867,.00491

GW 11,13,0.,0.,.03867,-7.7348,0.,.03867,.00491

GW 12,13,0.,0.,.03867,0.,-7.7348,.03867,.00491

GW 13,13,0.,0.,.03867,7.73481,0.,.03867,.00491

GE 1

LD 4,1,7,7,50.,0.

LD 4,2,7,7,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,21.

GN 2,0,0,0,13.,.005

EX 0,6,65,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NH 0,401,1,1,-200.,-10.,10.,1.,0.,.3048

EN

DIP24R9.EZ

CM Differential 1 phase 24.9 MHz

CE

GW 1,13,81.2154,23.9779,7.73481,73.4806,23.9779,7.73481,.00491

GW 2,13,81.2154,-17.279,23.2044,73.4806,-17.279,23.2044,.00491

GW 3,129,-77.348,0.,7.73481,0.,0.,7.73481,.00491

GW 4,129,0.,0.,7.73481,77.348,0.,7.73481,.00491

GW 5,129,-77.348,.77348,7.73481,0.,.77348,7.73481,.00491

GW 6,129,0.,.77348,7.73481,77.348,.77348,7.73481,.00491

GW 7,3,77.348,0.,7.73481,77.348,.77348,7.73481,.00491

GW 8,3,-77.348,0.,7.73481,-77.348,.77348,7.73481,.00491

GW 9,13,0.,0.,7.73481,0.,0.,.03867,.00491

GW 10,13,0.,0.,.03867,0.,7.73481,.03867,.00491

GW 11,13,0.,0.,.03867,-7.7348,0.,.03867,.00491

GW 12,13,0.,0.,.03867,0.,-7.7348,.03867,.00491

GW 13,13,0.,0.,.03867,7.73481,0.,.03867,.00491

GE 1

LD 4,1,7,7,50.,0.

LD 4,2,7,7,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,24.9

GN 2,0,0,0,13.,.005

EX 0,6,65,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NH 0,401,1,1,-200.,-10.,10.,1.,0.,.3048

EN

DIP28.EZ

CM Differential, 1 phase, 28 MHz

CE

GW 1,15,81.2154,23.9779,7.73481,73.4806,23.9779,7.73481,.00491

GW 2,15,81.2154,-17.279,23.2044,73.4806,-17.279,23.2044,.00491

GW 3,145,-77.348,0.,7.73481,0.,0.,7.73481,.00491

GW 4,145,0.,0.,7.73481,77.348,0.,7.73481,.00491

GW 5,145,-77.348,.77348,7.73481,0.,.77348,7.73481,.00491

GW 6,145,0.,.77348,7.73481,77.348,.77348,7.73481,.00491

GW 7,3,77.348,0.,7.73481,77.348,.77348,7.73481,.00491

GW 8,3,-77.348,0.,7.73481,-77.348,.77348,7.73481,.00491

GW 9,15,0.,0.,7.73481,0.,0.,.03867,.00491

GW 10,15,0.,0.,.03867,0.,7.73481,.03867,.00491

GW 11,15,0.,0.,.03867,-7.7348,0.,.03867,.00491

GW 12,15,0.,0.,.03867,0.,-7.7348,.03867,.00491

GW 13,15,0.,0.,.03867,7.73481,0.,.03867,.00491

GE 1

LD 4,1,8,8,50.,0.

LD 4,2,8,8,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,28.

GN 2,0,0,0,13.,.005

EX 0,6,73,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NH 0,401,1,1,-200.,-10.,10.,1.,0.,.3048

EN

DIP50.EZ

CM Differential 1 phase 50 MHz

CE

GW 1,27,81.2154,23.9779,7.7348,73.4806,23.9779,7.7348,.00491
GW 2,27,81.2154,-17.279,23.2044,73.4806,-17.279,23.2044,.00491
GW 3,259,-77.348,0.,7.7348,0.,0.,7.7348,.00491
GW 4,259,0.,0.,7.7348,77.348,0.,7.7348,.00491
GW 5,259,-77.348,.77348,7.7348,0.,.77348,7.7348,.00491
GW 6,259,0.,.77348,7.7348,77.348,.77348,7.7348,.00491
GW 7,3,77.348,0.,7.7348,77.348,.77348,7.7348,.00491
GW 8,3,-77.348,0.,7.7348,-77.348,.77348,7.7348,.00491
GW 9,26,0.,0.,7.7348,0.,0.,.03867,.00491
GW 10,26,0.,0.,.03867,0.,7.7348,.03867,.00491
GW 11,26,0.,0.,.03867,-7.7348,0.,.03867,.00491
GW 12,26,0.,0.,.03867,0.,-7.7348,.03867,.00491
GW 13,26,0.,0.,.03867,7.7348,0.,.03867,.00491

GE 1

LD 4,1,14,14,50.,0.
LD 4,2,14,14,50.,0.
LD 4,7,2,2,50.,0.
LD 4,8,2,2,50.,0.
LD 5,1,0,0,5.7471E+7,1.
LD 5,2,0,0,5.7471E+7,1.
LD 5,3,0,0,5.7471E+7,1.
LD 5,4,0,0,5.7471E+7,1.
LD 5,5,0,0,5.7471E+7,1.
LD 5,6,0,0,5.7471E+7,1.
LD 5,7,0,0,5.7471E+7,1.
LD 5,8,0,0,5.7471E+7,1.
LD 5,9,0,0,5.7471E+7,1.
LD 5,10,0,0,5.7471E+7,1.
LD 5,11,0,0,5.7471E+7,1.
LD 5,12,0,0,5.7471E+7,1.
LD 5,13,0,0,5.7471E+7,1.
FR 0,1,0,0,50.
GN 2,0,0,0,13.,.005
EX 0,6,130,0,1.414214,0.
RP 0,91,90,1000,90.,0.,-2.,2.,0.
NH 0,401,1,1,-200.,-10.,10.,1.,0...3048
EN

DIP14E30.NEC

CM Differential, 1 phase, 14 MHz

GW 1,11,105.,33.,10.,95.,33.,10.,.00635

GW 2,11,105.,-22.34,30.,95.,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,1.,10.,0.,1.,10.,.00635

GW 6,95,0.,1.,10.,100.,1.,10.,.00635

GW 7,3,100.,0.,10.,100.,1.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,1.51E-06.,.05.,.00635

GW 12,11,0.,0.,.05,-4.649E-6,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,-3.02E-06.,.05.,.00635

GE 1

LD 4 ,1,6,6,50.,0.

LD 4 ,2,6,6,50.,0.

LD 4 ,7,2,2,50.,0.

LD 4 ,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,14.

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,46,181,1001,0.,0.,2.,2.,0.

NE 0,401,1,1,-200.,-30.,10.,1.,0.,0.

EN

DIP14H30.NEC

CM Differential, 1 phase, 14 MHz

CE

GW 1,11,105.,33.,10.,95.,33.,10.,.00635

GW 2,11,105.,-22.34,30.,95.,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,1.,10.,0.,1.,10.,.00635

GW 6,95,0.,1.,10.,100.,1.,10.,.00635

GW 7,3,100.,0.,10.,100.,1.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,1.51E-06,.05.,.00635

GW 12,11,0.,0.,.05,-4.649E-6,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,-3.02E-06,.05.,.00635

GE 1

LD 4 ,1,6,6,50.,0.

LD 4 ,2,6,6,50.,0.

LD 4 ,7,2,2,50.,0.

LD 4 ,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,14.

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,46,181,1001,0.,0.,2.,2.,0.

NH 0,401,1,1,-200.,-30.,10.,1.,0.,0.

EN

DIP14E10.NEC

CM Differential, 1 phase, 14 MHz

CE

GW 1,11,105.,33.,10.,95.,33.,10.,.00635

GW 2,11,105.,-22.34,30.,95.,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,1.,10.,0.,1.,10.,.00635

GW 6,95,0.,1.,10.,100.,1.,10.,.00635

GW 7,3,100.,0.,10.,100.,1.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,1.51E-06,.05.,.00635

GW 12,11,0.,0.,.05,-4.649E-6,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,-3.02E-06,.05.,.00635

GE 1

LD 4 ,1,6,6,50.,0.

LD 4 ,2,6,6,50.,0.

LD 4 ,7,2,2,50.,0.

LD 4 ,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,14.

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,46,181,1001,0.,0.,2.,2.,0.

NE 0,401,1,1,-200.,-10.,10.,1.,0.,0.

EN

DIP14H10.NEC

CM Differential, 1 phase, 14 MHz

CE

GW 1,11,105.,33.,10.,95.,33.,10.,.00635

GW 2,11,105.,-22.34,30.,95.,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,1.,10.,0.,1.,10.,.00635

GW 6,95,0.,1.,10.,100.,1.,10.,.00635

GW 7,3,100.,0.,10.,100.,1.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,1.51E-06,.05.,.00635

GW 12,11,0.,0.,.05,-4.649E-6,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,-3.02E-06,.05.,.00635

GE 1

LD 4 ,1,6,6,50.,0.

LD 4 ,2,6,6,50.,0.

LD 4 ,7,2,2,50.,0.

LD 4 ,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,14.

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,46,181,1001,0.,0.,2.,2.,0.

NH 0,401,1,1,-200.,-10.,10.,1.,0.,0.

EN

DIP14E3.NEC

CM Differential, 1 phase, 14 MHz

CE

GW 1,11,105.,33.,10.,95.,33.,10.,.00635

GW 2,11,105.,-22.34,30.,95.,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,1.,10.,0.,1.,10.,.00635

GW 6,95,0.,1.,10.,100.,1.,10.,.00635

GW 7,3,100.,0.,10.,100.,1.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,1.51E-06,.05.,.00635

GW 12,11,0.,0.,.05,-4.649E-6,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,-3.02E-06,.05.,.00635

GE 1

LD 4 ,1,6,6,50.,0.

LD 4 ,2,6,6,50.,0.

LD 4 ,7,2,2,50.,0.

LD 4 ,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,14.

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,46,181,1001,0.,0.,2.,2.,0.

NE 0,401,1,1,-200.,-3.,10.,1.,0.,0.

EN

DIP14H3.NEC

CM Differential, 1 phase, 14 MHz

CE

GW 1,11,105.,33.,10.,95.,33.,10.,.00635

GW 2,11,105.,-22.34,30.,95.,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,1.,10.,0.,1.,10.,.00635

GW 6,95,0.,1.,10.,100.,1.,10.,.00635

GW 7,3,100.,0.,10.,100.,1.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,1.51E-06,.05.,.00635

GW 12,11,0.,0.,.05,-4.649E-6,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,-3.02E-06,.05.,.00635

GE 1

LD 4 ,1,6,6,50.,0.

LD 4 ,2,6,6,50.,0.

LD 4 ,7,2,2,50.,0.

LD 4 ,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,14.

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,46,181,1001,0.,0.,2.,2.,0.

NH 0,401,1,1,-200.,-3.,10.,1.,0.,0.

EN

DIP3R5E30.NEC

CM Differential, 1 phase, 3.5 MHz

CE

GW 1,11,120.5166,32.97718,10.,79.40218,33.,10.,.00635

GW 2,11,120.5166,-22.34,30.,79.40218,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,1.,10.,0.,1.,10.,.00635

GW 6,95,0.,1.,10.,100.,1.,10.,.00635

GW 7,3,100.,0.,10.,100.,1.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,1.51E-06,.05.,.00635

GW 12,11,0.,0.,.05,-4.649E-6,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,-3.02E-06,.05.,.00635

GE 1

LD 4 ,1,6,6,50.,0.

LD 4 ,2,6,6,50.,0.

LD 4 ,7,2,2,50.,0.

LD 4 ,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,3.5

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,46,181,1001,0.,0.,2.,2.,0.

NE 0,401,1,1,-200.,-30.,10.,1.,0.,0.

EN

DIP3R5H30.NEC

CM Differential, 1 phase, 3.5 MHz

CE

GW 1,11,120.5166,32.97718,10.,79.40218,33.,10.,.00635

GW 2,11,120.5166,-22.34,30.,79.40218,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,1.,10.,0.,1.,10.,.00635

GW 6,95,0.,1.,10.,100.,1.,10.,.00635

GW 7,3,100.,0.,10.,100.,1.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,1.51E-06,.05.,.00635

GW 12,11,0.,0.,.05,-4.649E-6,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,-3.02E-06,.05.,.00635

GE 1

LD 4 ,1,6,6,50.,0.

LD 4 ,2,6,6,50.,0.

LD 4 ,7,2,2,50.,0.

LD 4 ,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,3.5

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,46,181,1001,0.,0.,2.,2.,0.

NH 0,401,1,1,-200.,-30.,10.,1.,0.,0.

EN

DIP3R5E10.NEC

CM Differential, 1 phase, 3.5 MHz

CE

GW 1,11,120.5166,32.97718,10.,79.40218,33.,10.,.00635

GW 2,11,120.5166,-22.34,30.,79.40218,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,1.,10.,0.,1.,10.,.00635

GW 6,95,0.,1.,10.,100.,1.,10.,.00635

GW 7,3,100.,0.,10.,100.,1.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,1.51E-06,.05.,.00635

GW 12,11,0.,0.,.05,-4.649E-6,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,-3.02E-06,.05.,.00635

GE 1

LD 4 ,1,6,6,50.,0.

LD 4 ,2,6,6,50.,0.

LD 4 ,7,2,2,50.,0.

LD 4 ,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,3.5

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,46,181,1001,0.,0.,2.,2.,0.

NE 0,401,1,1,-200.,-10.,10.,1.,0.,0.

EN

DIP3R5H10.NEC

CM Differential, 1 phase, 3.5 MHz

CE

GW 1,11,120.5166,32.97718,10.,79.40218,33.,10.,.00635

GW 2,11,120.5166,-22.34,30.,79.40218,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,1.,10.,0.,1.,10.,.00635

GW 6,95,0.,1.,10.,100.,1.,10.,.00635

GW 7,3,100.,0.,10.,100.,1.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,1.51E-06,.05.,.00635

GW 12,11,0.,0.,.05,-4.649E-6,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,-3.02E-06,.05.,.00635

GE 1

LD 4 ,1,6,6,50.,0.

LD 4 ,2,6,6,50.,0.

LD 4 ,7,2,2,50.,0.

LD 4 ,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,3.5

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,46,181,1001,0.,0.,2.,2.,0.

NH 0,401,1,1,-200.,-10.,10.,1.,0.,0.

EN

DIP3R5E3.NEC

CM Differential, 1 phase, 3.5 MHz

CE

GW 1,11,120.5166,32.97718,10.,79.40218,33.,10.,.00635

GW 2,11,120.5166,-22.34,30.,79.40218,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,1.,10.,0.,1.,10.,.00635

GW 6,95,0.,1.,10.,100.,1.,10.,.00635

GW 7,3,100.,0.,10.,100.,1.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,1.51E-06,.05.,.00635

GW 12,11,0.,0.,.05,-4.649E-6,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,-3.02E-06,.05.,.00635

GE 1

LD 4 ,1,6,6,50.,0.

LD 4 ,2,6,6,50.,0.

LD 4 ,7,2,2,50.,0.

LD 4 ,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,3.5

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,46,181,1001,0.,0.,2.,2.,0.

NE 0,401,1,1,-200.,-3.,10.,1.,0.,0.

EN

DIP3R5H3.NEC

CM Differential, 1 phase, 3.5 MHz

CE

GW 1,11,120.5166,32.97718,10.,79.40218,33.,10.,.00635

GW 2,11,120.5166,-22.34,30.,79.40218,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,1.,10.,0.,1.,10.,.00635

GW 6,95,0.,1.,10.,100.,1.,10.,.00635

GW 7,3,100.,0.,10.,100.,1.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,1.51E-06,.05.,.00635

GW 12,11,0.,0.,.05,-4.649E-6,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,-3.02E-06,.05.,.00635

GE 1

LD 4 ,1,6,6,50.,0.

LD 4 ,2,6,6,50.,0.

LD 4 ,7,2,2,50.,0.

LD 4 ,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,3.5

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,46,181,1001,0.,0.,2.,2.,0.

NH 0,401,1,1,-200.,-3.,10.,1.,0.,0.

EN

**Calculated Levels from Broadband Over Power Line Systems and their Impact on Amateur Radio
Communications Circuits**

Author: Ed Hare, ARRL Laboratory Manager

Date: July 7, 2003

Appendix A: Sample NEC files used for the calculations in this paper

DIP3-1.NEC

CM Differential, 1 phase, 3.5 MHz

CE

GW 1,11,105.,5,40.,65.,5,40.,00635

GW 2,95,-100.,0.,10.,0.,0.,10.,00635

GW 3,95,0.,0.,10.,100.,0.,10.,00635

GW 4,95,-100.,1.,10.,0.,1.,10.,00635

GW 5,95,0.,1.,10.,100.,1.,10.,00635

GW 6,3,100.,0.,10.,100.,1.,10.,00635

GW 7,3,-100.,0.,10.,-100.,1.,10.,00635

GW 8,11,0.,0.,10.,0.,0.,.05.,00635

GW 9,11,0.,0.,.05,0.,10.,.05.,00635

GW 10,11,0.,0.,.05,-10.,0.,.05.,00635

GW 11,11,0.,0.,.05,0.,-10.,.05.,00635

GW 12,11,0.,0.,.05,10.,0.,.05.,00635

GE 1

LD 4,1,6,6,50.,0.

LD 4,6,2,2,50.,0.

LD 4,7,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

FR 0,1,0,0,3.5

GN 2,0,0,0,13.,.005

EX 0,5,48,0,1.414214,0.

RP 0,181,1,1000,90.,0.,-1.,0.,0.

NE 0,201,1,1,-100.,30.,10.,1.,0.,.3048

EN

DIP3-2.NEC

CM Differential, 1 phase, 3.5 MHz

CE

GW 1,11,30,-30,10,70,-30,10,,00635

GW 2,95,-100,0,10,0,0,10,,00635

GW 3,95,0,0,10,100,0,10,,00635

GW 4,95,-100,1,10,0,1,10,,00635

GW 5,95,0,1,10,100,1,10,,00635

GW 6,3,100,0,10,100,1,10,,00635

GW 7,3,-100,0,10,-100,1,10,,00635

GW 8,11,0,0,10,0,0,05,00635

GW 9,11,0,0,05,0,10,05,00635

GW 10,11,0,0,05,-10,0,05,00635

GW 11,11,0,0,05,0,-10,05,00635

GW 12,11,0,0,05,10,0,05,00635

GE 1

LD 4,1,6,6,50,0.

LD 4,6,2,2,50,0.

LD 4,7,2,2,50,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

FR 0,1,0,0,3.5

GN 2,0,0,0,13,,005

EX 0,5,48,0,1.414214,0.

RP 0,181,1,1000,90,0,-1,0,0.

NE 0,201,1,1,-100,30,10,1,0,,3048

EN

DIP3-3.NEC

CM Differential, 1 phase, 3.5 MHz

CE

GW 1,11,-20.,-30.,10.,20.,-30.,10.,00635

GW 2,95,-100.,0.,10.,0.,0.,10.,00635

GW 3,95,0.,0.,10.,100.,0.,10.,00635

GW 4,95,-100.,1.,10.,0.,1.,10.,00635

GW 5,95,0.,1.,10.,100.,1.,10.,00635

GW 6,3,100.,0.,10.,100.,1.,10.,00635

GW 7,3,-100.,0.,10.,-100.,1.,10.,00635

GW 8,11,0.,0.,10.,0.,0.,05.,00635

GW 9,11,0.,0.,05,0.,10.,05.,00635

GW 10,11,0.,0.,05,-10.,0.,05.,00635

GW 11,11,0.,0.,05,0.,-10.,05.,00635

GW 12,11,0.,0.,05,10.,0.,05.,00635

GE 1

LD 4,1,6,6,50.,0.

LD 4,6,2,2,50.,0.

LD 4,7,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

FR 0,1,0,0,3.5

GN 2,0,0,0,13.,005

EX 0,5,48,0,1.414214,0.

RP 0,181,1,1000,90.,0.,-1.,0.,0.

NE 0,201,1,1,-100.,30.,10.,1.,0.,3048

EN

DIP3-4.NEC

CM Differential, 1 phase, 3.5 MHz

CE

GW 1,11,100.,-30.,10.,60.,-30.,10.,,00635

GW 2,95,-100.,0.,10.,0.,0.,10.,,00635

GW 3,95,0.,0.,10.,100.,0.,10.,,00635

GW 4,95,-100.,1.,10.,0.,1.,10.,,00635

GW 5,95,0.,1.,10.,100.,1.,10.,,00635

GW 6,3,100.,0.,10.,100.,1.,10.,,00635

GW 7,3,-100.,0.,10.,-100.,1.,10.,,00635

GW 8,11,0.,0.,10.,0.,0.,,05.,,00635

GW 9,11,0.,0.,,05,0.,10.,,05.,,00635

GW 10,11,0.,0.,,05,-10.,0.,,05.,,00635

GW 11,11,0.,0.,,05,0.,-10.,,05.,,00635

GW 12,11,0.,0.,,05,10.,0.,,05.,,00635

GE 1

LD 4,1,6,6,50.,0.

LD 4,6,2,2,50.,0.

LD 4,7,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

FR 0,1,0,0,3.5

GN 2,0,0,0,13.,,005

EX 0,5,48,0,1.414214,0.

RP 0,181,1,1000,90.,0.,-1.,0.,0.

NE 0,201,1,1,-100.,30.,10.,1.,0.,,3048

EN

DIP3-5.NEC

CM Differential, 1 phase, 3.5 MHz

CE

GW 1,11,-100.,-30.,10.,-60.,-30.,10.,,00635

GW 2,95,-100.,0.,10.,0.,0.,10.,,00635

GW 3,95,0.,0.,10.,100.,0.,10.,,00635

GW 4,95,-100.,1.,10.,0.,1.,10.,,00635

GW 5,95,0.,1.,10.,100.,1.,10.,,00635

GW 6,3,100.,0.,10.,100.,1.,10.,,00635

GW 7,3,-100.,0.,10.,-100.,1.,10.,,00635

GW 8,11,0.,0.,10.,0.,0.,,05.,,00635

GW 9,11,0.,0.,,05,0.,10.,,05.,,00635

GW 10,11,0.,0.,,05,-10.,0.,,05.,,00635

GW 11,11,0.,0.,,05,0.,-10.,,05.,,00635

GW 12,11,0.,0.,,05,10.,0.,,05.,,00635

GE 1

LD 4,1,6,6,50.,0.

LD 4,6,2,2,50.,0.

LD 4,7,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

FR 0,1,0,0,3.5

GN 2,0,0,0,13.,,005

EX 0,5,48,0,1.414214,0.

RP 0,181,1,1000,90.,0.,-1.,0.,0.

NE 0,201,1,1,-100.,30.,10.,1.,0.,,3048

EN

DIP3-6.NEC

CM Differential, 1 phase, 3.5 MHz

CE

GW 1,11,-100.,-22.4,30.,-60.,-22.4,30.,00635

GW 2,95,-100.,0.,10.,0.,0.,10.,00635

GW 3,95,0.,0.,10.,100.,0.,10.,00635

GW 4,95,-100.,1.,10.,0.,1.,10.,00635

GW 5,95,0.,1.,10.,100.,1.,10.,00635

GW 6,3,100.,0.,10.,100.,1.,10.,00635

GW 7,3,-100.,0.,10.,-100.,1.,10.,00635

GW 8,11,0.,0.,10.,0.,0.,05.,00635

GW 9,11,0.,0.,05,0.,10.,05.,00635

GW 10,11,0.,0.,05,-10.,0.,05.,00635

GW 11,11,0.,0.,05,0.,-10.,05.,00635

GW 12,11,0.,0.,05,10.,0.,05.,00635

GE 1

LD 4,1,6,6,50.,0.

LD 4,6,2,2,50.,0.

LD 4,7,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

FR 0,1,0,0,3.5

GN 2,0,0,0,13.,005

EX 0,5,48,0,1.414214,0.

RP 0,181,1,1000,90.,0.,-1.,0.,0.

NE 0,201,1,1,-100.,30.,10.,1.,0.,3048

EN

DIP14-1.NEC

CM Differential, 1 phase, 14 MHz

CE

GW 1,39,-30.,5,40.,-40.,5,40.,00635
GW 2,95,-100.,0.,10.,0.,0.,10.,00635
GW 3,95,0.,0.,10.,100.,0.,10.,00635
GW 4,95,-100.,1.,10.,0.,1.,10.,00635
GW 5,95,0.,1.,10.,100.,1.,10.,00635
GW 6,3,100.,0.,10.,100.,1.,10.,00635
GW 7,3,-100.,0.,10.,-100.,1.,10.,00635
GW 8,11,0.,0.,10.,0.,0.,05.,00635
GW 9,11,0.,0.,05,0.,10.,05.,00635
GW 10,11,0.,0.,05,-10.,0.,05.,00635
GW 11,11,0.,0.,05,0.,-10.,05.,00635
GW 12,11,0.,0.,05,10.,0.,05.,00635

GE 1

LD 4,1,20,20,50.,0.

LD 4,6,2,2,50.,0.

LD 4,7,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

FR 0,1,0,0,14.

GN 2,0,0,0,13.,005

EX 0,5,48,0,1.414214,0.

RP 0,181,1,1000,90.,0.,-1.,0.,0.

NE 0,401,1,1,-200.,5,40.,1.,0.,0.

EN

DIP14-2.NEC

CM Differential, 1 phase, 14 MHz

CE

GW 1,39,45,-30,10,55,-30,10,,00635

GW 2,95,-100,0,10,0,0,10,,00635

GW 3,95,0,0,10,100,0,10,,00635

GW 4,95,-100,1,10,0,1,10,,00635

GW 5,95,0,1,10,100,1,10,,00635

GW 6,3,100,0,10,100,1,10,,00635

GW 7,3,-100,0,10,-100,1,10,,00635

GW 8,11,0,0,10,0,0,05,00635

GW 9,11,0,0,05,0,10,05,00635

GW 10,11,0,0,05,-10,0,05,00635

GW 11,11,0,0,05,0,-10,05,00635

GW 12,11,0,0,05,10,0,05,00635

GE 1

LD 4,1,20,20,50,0.

LD 4,6,2,2,50,0.

LD 4,7,2,2,50,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

FR 0,1,0,0,14.

GN 2,0,0,0,13,,005

EX 0,5,48,0,1.414214,0.

RP 0,181,1,1000,90,0,-1,0,0.

NE 0,401,1,1,-200,,5,40,1,0,0.

EN

DIP14-3.NEC

CM Differential, 1 phase, 14 MHz

CE

GW 1,39,-5.,-30.,10.,5.,-30.,10.,,00635

GW 2,95,-100.,0.,10.,0.,0.,10.,,00635

GW 3,95,0.,0.,10.,100.,0.,10.,,00635

GW 4,95,-100.,1.,10.,0.,1.,10.,,00635

GW 5,95,0.,1.,10.,100.,1.,10.,,00635

GW 6,3,100.,0.,10.,100.,1.,10.,,00635

GW 7,3,-100.,0.,10.,-100.,1.,10.,,00635

GW 8,11,0.,0.,10.,0.,0.,,05.,00635

GW 9,11,0.,0.,,05,0.,10.,,05.,00635

GW 10,11,0.,0.,,05,-10.,0.,,05.,00635

GW 11,11,0.,0.,,05,0.,-10.,,05.,00635

GW 12,11,0.,0.,,05,10.,0.,,05.,00635

GE 1

LD 4,1,20,20,50.,0.

LD 4,6,2,2,50.,0.

LD 4,7,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

FR 0,1,0,0,14.

GN 2,0,0,0,13.,,005

EX 0,5,48,0,1.414214,0.

RP 0,181,1,1000,90.,0.,-1.,0.,0.

NE 0,401,1,1,-200.,,5,40.,1.,0.,0.

EN

DIP14-4.NEC

CM Differential, 1 phase, 14 MHz

CE

GW 1,39,100.,-30.,10.,90.,-30.,10.,,00635

GW 2,95,-100.,0.,10.,0.,0.,10.,,00635

GW 3,95,0.,0.,10.,100.,0.,10.,,00635

GW 4,95,-100.,1.,10.,0.,1.,10.,,00635

GW 5,95,0.,1.,10.,100.,1.,10.,,00635

GW 6,3,100.,0.,10.,100.,1.,10.,,00635

GW 7,3,-100.,0.,10.,-100.,1.,10.,,00635

GW 8,11,0.,0.,10.,0.,0.,,05.,,00635

GW 9,11,0.,0.,,05,0.,10.,,05.,,00635

GW 10,11,0.,0.,,05,-10.,0.,,05.,,00635

GW 11,11,0.,0.,,05,0.,-10.,,05.,,00635

GW 12,11,0.,0.,,05,10.,0.,,05.,,00635

GE 1

LD 4,1,20,20,50.,0.

LD 4,6,2,2,50.,0.

LD 4,7,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

FR 0,1,0,0,14.

GN 2,0,0,0,13.,,005

EX 0,5,48,0,1.414214,0.

RP 0,181,1,1000,90.,0.,-1.,0.,0.

NE 0,401,1,1,-200.,,5,40.,1.,0.,0.

EN

DIP14-5.NEC

CM Differential, 1 phase, 14 MHz

CE

GW 1,39,-100.,-30.,10.,-90.,-30.,10.,,00635

GW 2,95,-100.,0.,10.,0.,0.,10.,,00635

GW 3,95,0.,0.,10.,100.,0.,10.,,00635

GW 4,95,-100.,1.,10.,0.,1.,10.,,00635

GW 5,95,0.,1.,10.,100.,1.,10.,,00635

GW 6,3,100.,0.,10.,100.,1.,10.,,00635

GW 7,3,-100.,0.,10.,-100.,1.,10.,,00635

GW 8,11,0.,0.,10.,0.,0.,,05.,00635

GW 9,11,0.,0.,,05,0.,10.,,05.,00635

GW 10,11,0.,0.,,05,-10.,0.,,05.,00635

GW 11,11,0.,0.,,05,0.,-10.,,05.,00635

GW 12,11,0.,0.,,05,10.,0.,,05.,00635

GE 1

LD 4,1,20,20,50.,0.

LD 4,6,2,2,50.,0.

LD 4,7,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

FR 0,1,0,0,14.

GN 2,0,0,0,13.,,005

EX 0,5,48,0,1.414214,0.

RP 0,181,1,1000,90.,0.,-1.,0.,0.

NE 0,401,1,1,-200.,,5,40.,1.,0.,0.

EN

DIP14-6.NEC

CM Differential, 1 phase, 14 MHz

CE

GW 1,39,-100.,-22.4,30.,-90.,-22.4,30.,00635

GW 2,95,-100.,0.,10.,0.,0.,10.,00635

GW 3,95,0.,0.,10.,100.,0.,10.,00635

GW 4,95,-100.,1.,10.,0.,1.,10.,00635

GW 5,95,0.,1.,10.,100.,1.,10.,00635

GW 6,3,100.,0.,10.,100.,1.,10.,00635

GW 7,3,-100.,0.,10.,-100.,1.,10.,00635

GW 8,11,0.,0.,10.,0.,0.,05.,00635

GW 9,11,0.,0.,05,0.,10.,05.,00635

GW 10,11,0.,0.,05,-10.,0.,05.,00635

GW 11,11,0.,0.,05,0.,-10.,05.,00635

GW 12,11,0.,0.,05,10.,0.,05.,00635

GE 1

LD 4,1,20,20,50.,0.

LD 4,6,2,2,50.,0.

LD 4,7,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

FR 0,1,0,0,14.

GN 2,0,0,0,13.,005

EX 0,5,48,0,1.414214,0.

RP 0,181,1,1000,90.,0.,-1.,0.,0.

NE 0,401,1,1,-200.,5,40.,1.,0.,0.

EN

DIP1R8.NEC

CM Differential, 1 phase, 1.8 MHz

CE

GW 1,11,105.,31.,10.,95.,31.,10.,.00635

GW 2,11,105.,-22.34,30.,95.,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,1.,10.,0.,1.,10.,.00635

GW 6,95,0.,1.,10.,100.,1.,10.,.00635

GW 7,3,100.,0.,10.,100.,1.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,.0.,.05.,.00635

GW 12,11,0.,0.,.05,0.,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,.0.,.05.,.00635

GE 1

LD 4,1,6,6,50.,0.

LD 4,2,6,6,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,1.8

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,.2.,0.

NH 0,200,1,1,1.,-10.,10.,1.,0.,0.

EN

DIP3R5.NEC

CM Differential 1 phase, 3.5 MHz

CE

GW 1,11,120.516,32.9771,10.,79.4021,33.,10.,.00635

GW 2,11,120.516,-22.34,30.,79.4021,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,3.,10.,0.,3.,10.,.00635

GW 6,95,0.,3.,10.,100.,3.,10.,.00635

GW 7,3,100.,0.,10.,100.,3.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,3.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,0.,.05.,.00635

GW 12,11,0.,0.,.05,0.,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,0.,.05.,.00635

GE 1

LD 4,1,6,6,50.,0.

LD 4,2,6,6,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,3.5

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NE 0,401,1,1,-200.,30.,10.,1.,0.,0.

EN

DIP5R3.NEC

CM Differential, 1 phase, 5.3 MHz

CE

GW 1,15,120.516,32.9771,10.,79.4021,33.,10.,00635

GW 2,15,120.516,-22.34,30.,79.4021,-22.34,30.,00635

GW 3,95,-100.,0.,10.,0.,0.,10.,00635

GW 4,95,0.,0.,10.,100.,0.,10.,00635

GW 5,95,-100.,3.,10.,0.,3.,10.,00635

GW 6,95,0.,3.,10.,100.,3.,10.,00635

GW 7,3,100.,0.,10.,100.,3.,10.,00635

GW 8,3,-100.,0.,10.,-100.,3.,10.,00635

GW 9,11,0.,0.,10.,0.,0.,05.,00635

GW 10,11,0.,0.,05.,0.,10.,05.,00635

GW 11,11,0.,0.,05.,-10.,0.,05.,00635

GW 12,11,0.,0.,05.,0.,-10.,05.,00635

GW 13,11,0.,0.,05.,10.,0.,05.,00635

GE 1

LD 4,1,8,8,50.,0.

LD 4,2,8,8,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,5.3

GN 2,0,0,0,13.,005

EX 0,6,48,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NE 0,201,1,1,-100.,30.,10.,1.,0.,3048

EN

DIP7.NEC

CM Differential, 1 phase, 7 MHz

CE

GW 1,21,120.516,32.9771,10.,79.4021,33.,10.,00635

GW 2,21,120.516,-22.34,30.,79.4021,-22.34,30.,00635

GW 3,95,-100.,0.,10.,0.,0.,10.,00635

GW 4,95,0.,0.,10.,100.,0.,10.,00635

GW 5,95,-100.,3.,10.,0.,3.,10.,00635

GW 6,95,0.,3.,10.,100.,3.,10.,00635

GW 7,3,100.,0.,10.,100.,3.,10.,00635

GW 8,3,-100.,0.,10.,-100.,3.,10.,00635

GW 9,11,0.,0.,10.,0.,0.,05.,00635

GW 10,11,0.,0.,05.,0.,10.,05.,00635

GW 11,11,0.,0.,05.,-10.,0.,05.,00635

GW 12,11,0.,0.,05.,0.,-10.,05.,00635

GW 13,11,0.,0.,05.,10.,0.,05.,00635

GE 1

LD 4,1,11,11,50.,0.

LD 4,2,11,11,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,7.

GN 2,0,0,0,13.,005

EX 0,6,48,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NE 0,201,1,1,-100.,30.,10.,1.,0.,3048

EN

DIP10R1.NEC

CM Differential 1 phase 10.1 MHz

CE

GW 1,29,120.516,32.9771,10.,79.4021,33.,10.,00635
GW 2,29,120.516,-22.34,30.,79.4021,-22.34,30.,00635
GW 3,95,-100.,0.,10.,0.,0.,10.,00635
GW 4,95,0.,0.,10.,100.,0.,10.,00635
GW 5,95,-100.,3.,10.,0.,3.,10.,00635
GW 6,95,0.,3.,10.,100.,3.,10.,00635
GW 7,3,100.,0.,10.,100.,3.,10.,00635
GW 8,3,-100.,0.,10.,-100.,3.,10.,00635
GW 9,11,0.,0.,10.,0.,0.,05.,00635
GW 10,11,0.,0.,05,0.,10.,05.,00635
GW 11,11,0.,0.,05,-10.,0.,05.,00635
GW 12,11,0.,0.,05,0.,-10.,05.,00635
GW 13,11,0.,0.,05,10.,0.,05.,00635

GE 1

LD 4,1,15,15,50.,0.
LD 4,2,15,15,50.,0.
LD 4,7,2,2,50.,0.
LD 4,8,2,2,50.,0.
LD 5,1,0,0,5.7471E+7,1.
LD 5,2,0,0,5.7471E+7,1.
LD 5,3,0,0,5.7471E+7,1.
LD 5,4,0,0,5.7471E+7,1.
LD 5,5,0,0,5.7471E+7,1.
LD 5,6,0,0,5.7471E+7,1.
LD 5,7,0,0,5.7471E+7,1.
LD 5,8,0,0,5.7471E+7,1.
LD 5,9,0,0,5.7471E+7,1.
LD 5,10,0,0,5.7471E+7,1.
LD 5,11,0,0,5.7471E+7,1.
LD 5,12,0,0,5.7471E+7,1.
LD 5,13,0,0,5.7471E+7,1.
FR 0,1,0,0,10.1
GN 2,0,0,0,13.,005
EX 0,6,48,0,1.414214,0.
RP 0,91,90,1000,90.,0.,-2.,2.,0.
NE 0,201,1,1,-100.,30.,10.,1.,0.,3048
EN

DIP14.NEC

CM Differential, 1 phase, 14 MHz

CE

GW 1,11,105.,31.,10.,95.,31.,10.,.00635

GW 2,11,105.,-22.34,30.,95.,-22.34,30.,.00635

GW 3,95,-100.,0.,10.,0.,0.,10.,.00635

GW 4,95,0.,0.,10.,100.,0.,10.,.00635

GW 5,95,-100.,1.,10.,0.,1.,10.,.00635

GW 6,95,0.,1.,10.,100.,1.,10.,.00635

GW 7,3,100.,0.,10.,100.,1.,10.,.00635

GW 8,3,-100.,0.,10.,-100.,1.,10.,.00635

GW 9,11,0.,0.,10.,0.,0.,.05.,.00635

GW 10,11,0.,0.,.05,0.,10.,.05.,.00635

GW 11,11,0.,0.,.05,-10.,0.,.05.,.00635

GW 12,11,0.,0.,.05,0.,-10.,.05.,.00635

GW 13,11,0.,0.,.05,10.,0.,.05.,.00635

GE 1

LD 4,1,6,6,50.,0.

LD 4,2,6,6,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,14.

GN 2,0,0,0,13.,.005

EX 0,6,48,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NH 0,200,1,1,1.,-10.,10.,1.,0.,0.

EN

DIP18R1.NEC

CM Differential 1 phase, 18.1 MHz

CE

GW 1,13,81.2154,23.9779,7.73481,73.4806,23.9779,7.73481,.00491

GW 2,13,81.2154,-17.279,23.2044,73.4806,-17.279,23.2044,.00491

GW 3,129,-77.348,0.,7.73481,0.,0.,7.73481,.00491

GW 4,129,0.,0.,7.73481,77.348,0.,7.73481,.00491

GW 5,129,-77.348,.77348,7.73481,0.,.77348,7.73481,.00491

GW 6,129,0.,.77348,7.73481,77.348,.77348,7.73481,.00491

GW 7,3,77.348,0.,7.73481,77.348,.77348,7.73481,.00491

GW 8,3,-77.348,0.,7.73481,-77.348,.77348,7.73481,.00491

GW 9,13,0.,0.,7.73481,0.,0.,.03867,.00491

GW 10,13,0.,0.,.03867,0.,7.73481,.03867,.00491

GW 11,13,0.,0.,.03867,-7.7348,0.,.03867,.00491

GW 12,13,0.,0.,.03867,0.,-7.7348,.03867,.00491

GW 13,13,0.,0.,.03867,7.73481,0.,.03867,.00491

GE 1

LD 4,1,7,7,50.,0.

LD 4,2,7,7,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,18.1

GN 2,0,0,0,13.,.005

EX 0,6,65,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NH 0,401,1,1,-200.,-10.,10.,1.,0.,.3048

EN

DIP21.NEC

CM Differential, 1 phase, 21 MHz

CE

GW 1,13,81.2154,23.9779,7.73481,73.4806,23.9779,7.73481,.00491

GW 2,13,81.2154,-17.279,23.2044,73.4806,-17.279,23.2044,.00491

GW 3,129,-77.348,0.,7.73481,0.,0.,7.73481,.00491

GW 4,129,0.,0.,7.73481,77.348,0.,7.73481,.00491

GW 5,129,-77.348,.77348,7.73481,0.,.77348,7.73481,.00491

GW 6,129,0.,.77348,7.73481,77.348,.77348,7.73481,.00491

GW 7,3,77.348,0.,7.73481,77.348,.77348,7.73481,.00491

GW 8,3,-77.348,0.,7.73481,-77.348,.77348,7.73481,.00491

GW 9,13,0.,0.,7.73481,0.,0.,.03867,.00491

GW 10,13,0.,0.,.03867,0.,7.73481,.03867,.00491

GW 11,13,0.,0.,.03867,-7.7348,0.,.03867,.00491

GW 12,13,0.,0.,.03867,0.,-7.7348,.03867,.00491

GW 13,13,0.,0.,.03867,7.73481,0.,.03867,.00491

GE 1

LD 4,1,7,7,50.,0.

LD 4,2,7,7,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,21.

GN 2,0,0,0,13.,.005

EX 0,6,65,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NH 0,401,1,1,-200.,-10.,10.,1.,0.,.3048

EN

DIP24R9.NEC

CM Differential 1 phase 24.9 MHz

CE

GW 1,13,81.2154,23.9779,7.73481,73.4806,23.9779,7.73481,.00491

GW 2,13,81.2154,-17.279,23.2044,73.4806,-17.279,23.2044,.00491

GW 3,129,-77.348,0.,7.73481,0.,0.,7.73481,.00491

GW 4,129,0.,0.,7.73481,77.348,0.,7.73481,.00491

GW 5,129,-77.348,.77348,7.73481,0.,.77348,7.73481,.00491

GW 6,129,0.,.77348,7.73481,77.348,.77348,7.73481,.00491

GW 7,3,77.348,0.,7.73481,77.348,.77348,7.73481,.00491

GW 8,3,-77.348,0.,7.73481,-77.348,.77348,7.73481,.00491

GW 9,13,0.,0.,7.73481,0.,0.,.03867,.00491

GW 10,13,0.,0.,.03867,0.,7.73481,.03867,.00491

GW 11,13,0.,0.,.03867,-7.7348,0.,.03867,.00491

GW 12,13,0.,0.,.03867,0.,-7.7348,.03867,.00491

GW 13,13,0.,0.,.03867,7.73481,0.,.03867,.00491

GE 1

LD 4,1,7,7,50.,0.

LD 4,2,7,7,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,24.9

GN 2,0,0,0,13.,.005

EX 0,6,65,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NH 0,401,1,1,-200.,-10.,10.,1.,0.,.3048

EN

DIP28.NEC

CM Differential, 1 phase, 28 MHz

CE

GW 1,15,81.2154,23.9779,7.73481,73.4806,23.9779,7.73481,.00491

GW 2,15,81.2154,-17.279,23.2044,73.4806,-17.279,23.2044,.00491

GW 3,145,-77.348,0.,7.73481,0.,0.,7.73481,.00491

GW 4,145,0.,0.,7.73481,77.348,0.,7.73481,.00491

GW 5,145,-77.348,.77348,7.73481,0.,.77348,7.73481,.00491

GW 6,145,0.,.77348,7.73481,77.348,.77348,7.73481,.00491

GW 7,3,77.348,0.,7.73481,77.348,.77348,7.73481,.00491

GW 8,3,-77.348,0.,7.73481,-77.348,.77348,7.73481,.00491

GW 9,15,0.,0.,7.73481,0.,0.,.03867,.00491

GW 10,15,0.,0.,.03867,0.,7.73481,.03867,.00491

GW 11,15,0.,0.,.03867,-7.7348,0.,.03867,.00491

GW 12,15,0.,0.,.03867,0.,-7.7348,.03867,.00491

GW 13,15,0.,0.,.03867,7.73481,0.,.03867,.00491

GE 1

LD 4,1,8,8,50.,0.

LD 4,2,8,8,50.,0.

LD 4,7,2,2,50.,0.

LD 4,8,2,2,50.,0.

LD 5,1,0,0,5.7471E+7,1.

LD 5,2,0,0,5.7471E+7,1.

LD 5,3,0,0,5.7471E+7,1.

LD 5,4,0,0,5.7471E+7,1.

LD 5,5,0,0,5.7471E+7,1.

LD 5,6,0,0,5.7471E+7,1.

LD 5,7,0,0,5.7471E+7,1.

LD 5,8,0,0,5.7471E+7,1.

LD 5,9,0,0,5.7471E+7,1.

LD 5,10,0,0,5.7471E+7,1.

LD 5,11,0,0,5.7471E+7,1.

LD 5,12,0,0,5.7471E+7,1.

LD 5,13,0,0,5.7471E+7,1.

FR 0,1,0,0,28.

GN 2,0,0,0,13.,.005

EX 0,6,73,0,1.414214,0.

RP 0,91,90,1000,90.,0.,-2.,2.,0.

NH 0,401,1,1,-200.,-10.,10.,1.,0.,.3048

EN

DIP50.NEC

CM Differential 1 phase 50 MHz

CE

GW 1,27,81.2154,23.9779,7.7348,73.4806,23.9779,7.7348,.00491
GW 2,27,81.2154,-17.279,23.2044,73.4806,-17.279,23.2044,.00491
GW 3,259,-77.348,0.,7.7348,0.,0.,7.7348,.00491
GW 4,259,0.,0.,7.7348,77.348,0.,7.7348,.00491
GW 5,259,-77.348,.77348,7.7348,0.,.77348,7.7348,.00491
GW 6,259,0.,.77348,7.7348,77.348,.77348,7.7348,.00491
GW 7,3,77.348,0.,7.7348,77.348,.77348,7.7348,.00491
GW 8,3,-77.348,0.,7.7348,-77.348,.77348,7.7348,.00491
GW 9,26,0.,0.,7.7348,0.,0.,.03867,.00491
GW 10,26,0.,0.,.03867,0.,7.7348,.03867,.00491
GW 11,26,0.,0.,.03867,-7.7348,0.,.03867,.00491
GW 12,26,0.,0.,.03867,0.,-7.7348,.03867,.00491
GW 13,26,0.,0.,.03867,7.7348,0.,.03867,.00491

GE 1

LD 4,1,14,14,50.,0.
LD 4,2,14,14,50.,0.
LD 4,7,2,2,50.,0.
LD 4,8,2,2,50.,0.
LD 5,1,0,0,5.7471E+7,1.
LD 5,2,0,0,5.7471E+7,1.
LD 5,3,0,0,5.7471E+7,1.
LD 5,4,0,0,5.7471E+7,1.
LD 5,5,0,0,5.7471E+7,1.
LD 5,6,0,0,5.7471E+7,1.
LD 5,7,0,0,5.7471E+7,1.
LD 5,8,0,0,5.7471E+7,1.
LD 5,9,0,0,5.7471E+7,1.
LD 5,10,0,0,5.7471E+7,1.
LD 5,11,0,0,5.7471E+7,1.
LD 5,12,0,0,5.7471E+7,1.
LD 5,13,0,0,5.7471E+7,1.
FR 0,1,0,0,50.
GN 2,0,0,0,13.,.005
EX 0,6,130,0,1.414214,0.
RP 0,91,90,1000,90.,0.,-2.,2.,0.
NH 0,401,1,1,-200.,-10.,10.,1.,0...3048
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