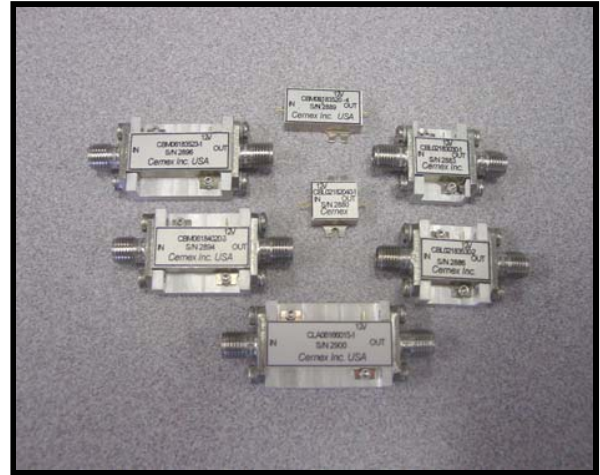


## Miteq's Equivalent Amplifiers

### FEATURES:

- ❖ Coverage From 0.1 to 40 GHz
- ❖ (Narrowband & Broadband)
- ❖ Noise Figure As Low As 0.5 dB
- ❖ Wide Dynamic Range
- ❖ Economically Priced



### SPECIFICATIONS:

#### Amplifiers for Radar Application (Moderate Bandwidth)

Model Number	Frequency Range (GHz)	Gain (dB) Min.	SS Flatness (+/-dB) Max.	NF (dB) Max.	P1dB (dBm) Min.	VSWR In/Out Max.	Current @ 12-15 VDC (mA) Typ.	Case Type
CNL010138064M	1.2-1.4	38	0.50	0.6*	10	1.5:1	110	MS6
CNL010138067M	1.4-1.7	38	0.50	0.6*	10	1.5:1	85	MS6
CNL020236087M	2.4-2.7	36	0.50	0.8*	10	1.5:1	100	MS6
CNL020236089M	2.7-2.9	36	0.50	0.8*	10	1.5:1	100	MS6
CNL020336081M	2.9-3.1	36	0.50	0.8*	10	1.5:1	100	MS6
CNL020334097M	2.9-3.7	34	0.50	0.9*	10	1.5:1	100	MS6
CNL05062411M	5.2-6	24	0.75	1.1*	10	1.5:1	100	MS4
CNL080932156M	8.5-9.6	32	0.75	1.5*	10	1.5:1	125	MS4
CNL081126156M	8.5-11.6	26	0.75	1.5*	10	1.5:1	125	MS4
CNL090928142M	9-9.2	28	0.75	1.4*	10	1.5:1	150	MS4
CNL090928145M	9-9.5	28	0.75	1.4*	10	1.5:1	150	MS4
CNL10102815M	10.5-10.7	28	0.75	1.5*	10	1.5:1	150	MS4
CNL13142416M	13.2-14	24	0.75	1.6*	10	1.5:1	120	MS4
CNL15152220M	15.4-15.7	22	0.50	2.0*	10	1.5:1	150	MS4
CNL24251545M	24.2-25.3	15	1.00	4.5*	10	2.0:1	100	MS4
CNL31331080M	31.8-33.4	10	1.50	8.0*	5	2.5:1	250	MS6
CNL33361085M	33.4-36	10	1.50	8.5*	5	2.5:1	250	MS6

\* LOWER NOISE FIGURE ARE ALSO AVAILABLE. SEE OUR NARROW BAND LOW NOISE AMPLIFIERS DATA SHEET



## Miteq's Equivalent Amplifiers

### Amplifiers for Communications Applications (Moderate Bandwidth)

Model Number	Frequency Range (GHz)	Gain (dB) Min.	SS Flatness (+/-dB) Max.	NF (dB) Max.	P1dB (dBm) Min.	VSWR In/Out Max.	Current @ 12-15 VDC (mA) Typ.	Case Type
CNLU90138072M	.9-1.2	38	0.50	0.7*	10	1.5:1	100	MS4
CNL010125086M	1.2-1.6	25	0.75	0.8*	5	1.5:1	80	MS6
CNL010138069M	1.7-1.9	38	0.50	0.6*	10	1.5:1	80	MS6
CNL010236082M	1.8-2.2	36	0.50	0.8*	10	1.5:1	100	MS4
CNL020236063M	2.2-2.3	36	0.50	0.6*	10	1.5:1	100	MS6
CNL020236087M	2.4-2.7	36	0.50	0.8*	10	1.5:1	100	MS6
CNL030434092M	3.4-4.2	34	0.50	0.9*	10	1.5:1	75	MS4
CNL030434082M	3.7-4.2	34	0.50	0.8*	10	1.5:1	75	MS4
CNL04053611M	4.4-5	36	0.50	1.1*	10	1.5:1	175	MS4
CNL050634124M	5.9-6.4	34	0.75	1.2*	10	1.5:1	175	MS4
CNL070734118M	7.2-7.8	34	0.75	1.1*	10	1.5:1	175	MS4
CNL070834134M	7.9-8.4	34	0.75	1.3*	10	1.5:1	175	MS4
CNL10112815M	10.7-11.7	28	0.75	1.5*	10	1.5:1	175	MS4
CNL10132420M	10.7-13.7	24	0.75	2.0*	10	1.5:1	150	MS4
CNL11122715M	11.7-12.2	27	0.75	1.5*	10	1.5:1	175	MS4
CNL12122716M	12.2-12.8	27	0.75	1.6*	10	1.5:1	175	MS4
CNL12132718M	12.7-13.3	27	0.75	1.8*	10	1.5:1	175	MS4
CNL14142419M	14-14.5	24	0.75	1.9*	10	1.5:1	150	MS4
CNL17201830M	17.7-20.2	18	0.75	3.0*	10	1.5:1	150	MS4
CNL20211833M	20.2-21.2	18	0.75	3.3*	8	1.5:1	150	MS4
CNL21241538M	21.2-24	15	1.00	3.8*	10	2.0:1	150	MS4
CNL25271250M	25.2-27.5	12	1.50	5.0*	8	2.0:1	210	MS4
CNL27301160M	27.5-30	11	1.50	6.0*	8	2.0:1	210	MS4
CNL30311065M	30-31	10	1.00	6.5*	8	2.5:1	210	MS4
CNL31311065M	31-31.2	10	1.00	6.5*	8	2.5:1	240	MS5
CNL36381085M	36-38.6	10	1.50	8.5*	5	2.5:1	260	MS6
CNL38401095M	38.6-40	10	1.50	9.5*	5	2.5:1	260	MS6

\* LOWER NOISE FIGURE ARE ALSO AVAILABLE. SEE OUR NARROW BAND LOW NOISE AMPLIFIER DATA SHEET



## Miteq's Equivalent Amplifiers

### General Purpose Amplifiers

Model Number	Frequency Range (GHz)	Gain (dB) Min.	SS Flatness (+/-dB) Max.	NF (dB) Max.	P1dB (dBm) Min.	VSWR In/Out Max.	Current @ 12-15 VDC (mA) Typ.	Case Type
CNLU2U24010M	.2-.25	40	0.50	1.0*	10	2.0:1	190	MS6
CNLU2U34009M	.25-.3	40	0.50	0.9*	10	2.0:1	190	MS6
CNLU3U32808M	.3-.35	28	0.50	0.8*	10	2.0:1	80	MS4
CNLU3042508M	.35-.4	25	0.50	0.8*	10	2.0:1	80	MS4
CNLU4U42508M	.4-.45	25	0.50	0.8*	10	2.0:1	80	MS4
CNLU4U52609M	.45-.55	26	0.50	0.9*	10	2.0:1	80	MS4
CNLU5U72610M	.5-.7	26	0.50	1.0*	10	1.5:1	80	MS4
CNLU7U92610M	.7-.9	26	0.50	1.0*	10	1.5:1	80	MS4
CNLU8U92008M	.8-.9	20	0.25	0.8*	5	1.5:1	80	MS4
CNLU90125101M	.9-1.1	25	0.50	1.0*	10	1.5:1	80	MS4
CNLO10125103M	1.1-1.3	25	0.50	1.0*	8	1.5:1	80	MS4
CNLO10125085M	1.3-1.5	25	0.50	0.8*	8	1.5:1	80	MS6
CNLO10120076M	1.5-1.6	20	0.25	0.7*	5	1.5:1	80	MS4
CNLO10128087M	1.5-1.7	28	0.50	0.8*	10	1.5:1	80	MS2
CNLO1022008M	1.9-2.0	20	0.25	0.8*	5	1.5:1	80	MS4
CNLO10236101M	1.9-2.1	36	0.50	1.0*	10	1.5:1	150	MS4
CNLO20225083M	2.1-2.3	25	0.50	0.8*	8	1.5:1	80	MS6
CNLO20225095M	2.3-2.5	25	0.50	0.9*	8	1.5:1	80	MS6
CNLO20224097M	2.5-2.7	24	0.50	0.9*	8	1.5:1	80	MS6
CNLO30335095M	3.1-3.5	35	0.50	0.9*	10	1.5:1	150	MS4
CNLO50628115M	5.5-6.5	28	0.75	1.1*	8	1.5:1	150	MS4
CNLO90924169M	9.4-9.9	24	0.75	1.6*	10	1.5:1	150	MS4
CNLO9102616M	9.5-10.5	26	0.75	1.6*	10	1.5:1	150	MS4
CNLO12131817M	12.5-13	18	0.75	1.7*	10	1.5:1	150	MS4
CNLO13132418M	13-13.5	24	0.75	1.8*	10	1.5:1	200	MS4
CNLO13141818M	13.5-14	18	0.75	1.8*	10	1.5:1	150	MS4
CNLO14152219M	14-15	22	0.75	1.9*	8	1.5:1	200	MS4
CNLO14152419M	14.5-15	24	0.75	1.9*	10	1.5:1	200	MS4
CNLO15162410M	15-16	24	0.75	2.1*	10	1.5:1	200	MS4
CNLO16172021M	16-17	20	0.75	2.1*	10	1.5:1	200	MS4
CNLO17172022M	17-17.5	20	0.75	2.2*	10	1.5:1	200	MS4
CNLO17182210M	17.5-18	22	0.75	2.3*	10	1.5:1	200	MS4
CNLO18182025M	18-18.5	20	0.75	2.5*	10	1.5:1	200	MS4
CNLO18191828M	18-19	18	0.75	2.8*	10	1.5:1	200	MS4
CNLO18192026M	18.5-19	20	0.75	2.6*	10	1.5:1	200	MS4
CNLO19192030M	19-19.5	20	0.75	3.0*	10	1.5:1	200	MS4



## Miteq's Equivalent Amplifiers

Model Number	Frequency Range (GHz)	Gain (dB) Min.	SS Flatness (+/-dB) Max.	NF (dB) Max.	P1dB (dBm) Min.	VSWR In/Out Max.	Current @ 12-15 VDC (mA) Typ.	Case Type
CNL19202233M	19-20	22	0.75	3.3*	8	1.5:1	200	MS4
CNL19202032M	19.5-20	20	0.75	3.2*	10	1.5:1	200	MS4
CNL20211835M	20-21	18	0.75	3.5*	10	1.5:1	200	MS4
CNL20211834M	20.5-21	18	0.75	3.4*	10	1.5:1	200	MS4
CNL21211837M	21-21.5	18	0.75	3.7*	10	2.0:1	200	MS4
CNL21221838M	21-22	18	0.75	3.8*	10	2.0:1	200	MS4
CNL21221620M	21.5-22	16	0.75	2.0*	10	2.0:1	200	MS4
CNL22231638M	22-23	16	0.75	3.8*	10	2.0:1	200	MS4
CNL23241639M	23-24	16	0.75	3.9*	10	2.0:1	200	MS4
CNL24251440M	24-25	14	0.75	4.0*	10	2.0:1	200	MS4
CNL25261445M	25-26	14	0.75	4.5*	10	2.0:1	200	MS4
CNL27301160M	27-30	11	1.50	6.0*	8	2.0:1	210	MS4
CNL30331065M	30-33	10	1.50	6.5*	8	2.0:1	210	MS4
CNL33361075M	33-36	10	1.50	7.5*	8	2.5:1	240	MS5
CNL36381085M	36-38	10	1.50	8.5*	5	2.5:1	260	MS6
CNL38401095M	38-40	10	1.50	9.5*	5	2.5:1	260	MS6

\* LOWER NOISE FIGURE ARE ALSO AVAILABLE. SEE OUR NARROW BAND LOW NOISE AMPLIFIERS DATA SHEET

### Octave

Model Number	Frequency Range (GHz)	Gain (dB) Min.	SS Flatness (+/-dB) Max.	NF (dB) Max.	P1dB (dBm) Min.	VSWR In/Out Max.	Current @ 12-15 VDC (mA) Typ.	Case Type
CBLU1U23611M	.12-.25	36	1.00	1.1	10	2.0:1	120	MS6
CBLU2053610M	.25-5	36	1.00	1.0	10	2.0:1	120	MS6
CBLU5012408M	.5-1	24	1.00	0.8	10	2.0:1	100	MS6
CBL01023407M	1-2	34	1.00	0.7	10	2.0:1	130	MS6
CBL010223104M	1.2-2.4	23	1.00	1.0	8	2.0:1	100	MS2
CBL02042810M	2-4	28	1.00	1.0	10	2.0:1	125	MS6
CBL020532152M	2.6-5.2	32	1.25	1.5	10	2.0:1	150	MS4
CBL04083412M	4-8	34	1.00	1.2	10	2.0:1	175	MS4
CBL05102718M	5-10	27	1.25	1.8	10	2.0:1	150	MS4
CBL06122219M	6-12	22	1.00	1.9	10	2.0:1	175	MS4
CBL08123015M	8-12	30	1.25	1.5	10	2.0:1	150	MS4
CBL12182420M	12-18	24	1.50	2.0	10	2.0:1	120	MS4



## Miteq's Equivalent Amplifiers

### Multi octave

Model Number	Frequency Range (GHz)	Gain (dB) Min.	SS Flatness (+/-dB) Max.	NF (dB) Max.	P1dB (dBm) Min.	VSWR In/Out Max.	Current @ 12-15 VDC (mA) Typ.	Case Type
CBLU30125104M	.3-1.4	25	1.00	1.0	10	2.0:1	100	MS4
CBLU5023610M	.5-2	36	1.00	1.0	10	2.0:1	130	MS8
CBL01032811M	1-3	28	1.50	1.1	8	2.5:1	150	MS8
CBL01042608M	1-4	26	1.75	1.3	8	2.5:1	175	MS8
CBL02062616M	2-6	26	1.00	1.6	10	2.0:1	125	MS4
CBL02083020M	2-8	30	1.50	2.0	10	2.0:1	175	MS4
CBL02182035M	2-18	20	2.50	3.5	10	2.5:1	100	MS4
CBL04122225M	4-12	22	1.00	2.5	10	2.0:1	175	MS4
CBL06182030M	6-18	20	2.00	3.0	10	2.5:1	175	MS4
CBL08182028M	8-18	20	1.50	2.8	10	2.0:1	150	MS4

### Low-Noise Ultra Wideband Amplifiers

Model Number	Frequency Range (GHz)	Gain (dB) Min.	SS Flatness (+/-dB) Max.	NF (dB) Max.	P1dB (dBm) Min.	VSWR In/Out Max.	Current @ 5 VDC (mA) Typ.	Case Type
CBLU1011313M	.1-1	13	1.00	1.3*	10	2.5:1	85	MS4
CBLU1023612M	.1-2	36	1.00	1.2*	10	2.0:1	150	MS4
CBLU1033213M	.1-3	32	1.00	1.3*	10	2.0:1	150	MS4
CBLU1042615M	.1-4	26	1.25	1.5*	10	2.0:1	150	MS4
CBLU1063020M	.1-6	30	1.50	2.0*	10	2.0:1	175	MS4
CBLU1083025M	.1-8	30	1.50	2.5*	10	2.0:1	175	MS4
CBLU1102830M Δ	.1-10	28	1.50	3.0*	10	2.0:1	175	MS4
CBLU1122635M Δ	.1-12	26	1.50	3.5*	10	2.0:1	175	MS4
CBLU1142240M Δ	.1-14	22	2.00	4.0*	10	2.5:1	200	MS4
CBLU1162142M Δ	.1-16	21	2.00	4.2*	10	2.5:1	200	MS4
CBLU1181843M Δ	.1-18	18	2.00	4.3*	10	2.5:1	200	MS4
CBLU1201845M Δ	.1-20	18	2.50	4.5*	10	2.5:1	175	MS4
CBLU1221455M Δ	.1-22	14	2.50	5.5*	10	2.5:1	175	MS4
CBLU1241265M Δ	.1-24	12	2.50	6.5*	10	2.5:1	175	MS4
CBLU12610905MΔ	.1-26.5	10	2.50	9.0*	10	2.5:1	175	MS4
CBLU1280915M Δ	.1-28	9	2.50	9.5*	10	2.7:1	175	MS4
CBLU1300810M Δ	.1-30	8	2.50	10.0*	7	3.0:1	175	MS4
CBLU1400812M Δ	.1-40	8	4.00	12.0*	6	3.5:1	275	MS8

\* NOISE FIGURE INCREASES BELOW 500 MHz

Δ LOWER NOISE FIGURE IS ALSO AVAILABLE. SEE OUR BROADBAND LOW NOISE AMPLIFIERS DATA SHEET



## Miteq's Equivalent Amplifiers

### Medium Power Amplifiers

Model Number	Frequency Range (GHZ)	Gain (dB) Min.	SS Flatness (+/-dB) Max.	NF (dB) Max.	P1dB (dBm) Min.	VSWR In/Out Max.	Current @ 12-15 VDC (mA) Typ.	Case Type
CBMU1011423M	.1-1	14	1.00	3.5	23	2.5:1	180	MS4
CBMU10110205M	.1-1.5	10	1.50	1.8	20	2.0:1	180	MS4
CBMU1023327M	.1-2	33	1.00	2.5	27	2.0:1	275	MS6
CBMU1032523M	.1-3	25	1.50	4.0	23	2.5:1	275	MS6
CBMU1042323M	.1-4	23	1.50	4.5	23	2.5:1	275	MS6
CBMU1062223M	.1-6	22	1.50	6.0	23	2.5:1	275	MS4
CBMU1082122M	.1-8	21	1.50	6.5	22	2.5:1	275	MS4
CBMU1101820M	.1-10	18	1.75	7.0	20	2.5:1	295	MS4
CBMU1122420M	.1-12	24	2.50	7.5	20	2.5:1	275	MS6
CBMU1181820M	.1-18	18	3.00	8.5	20	2.7:1	300	MS6
CBMU40316205M	.4-3.5	16	1.50	4.0	20	2.0:1	185	MS4
CBM01022020M	1-2	20	1.00	3.0	20	2.0:1	190	MS4
CBM02042625M	2-4	26	1.00	4.0	25	2.0:1	275	MS4
CBM02082623M	2-8	26	1.50	6.0	23	2.0:1	295	MS4
CBM02182018M	2-18	20	2.00	5.0	18	2.5:1	295	MS4
CBM04082823M	4-8	28	1.00	4.0	23	2.0:1	295	MS4
CBM06121822M	6-12	18	1.50	6.0	22	2.0:1	275	MS4
CBM06182420M	6-18	24	3.00	6.0	20	2.0:1	375	MS8
CBM08122423M	8-12	24	1.50	4.0	23	2.0:1	285	MS4
CBM08182621M	8-18	26	1.75	6.0	21	2.0:1	325	MS6
CBM18262015M	18-26.5	20	3.00	8.0	15	2.5:1	385	MS8

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE.