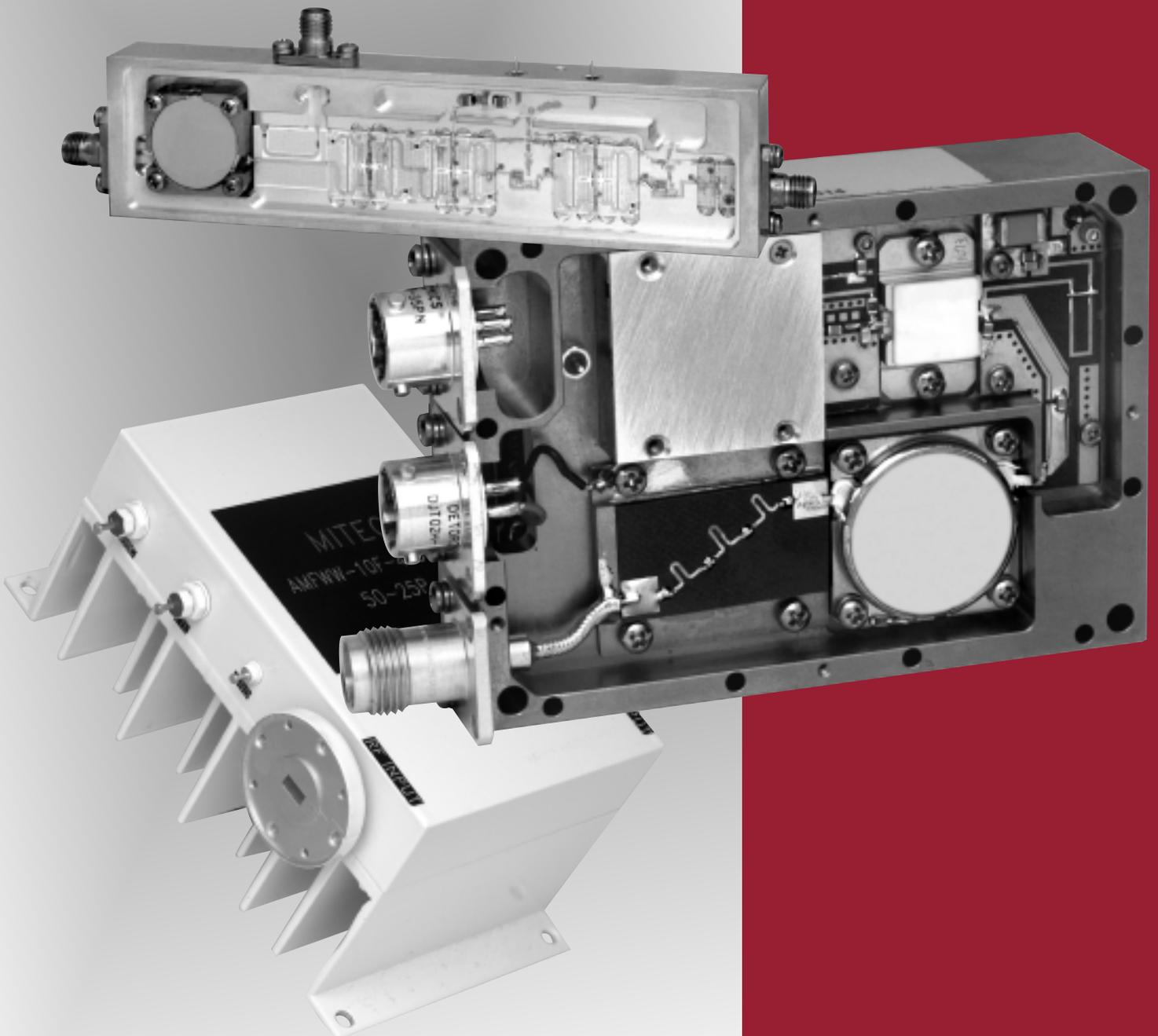


# UKRF

## MITEQ POWER AMPLIFIERS

The amplifiers listed within this section represent only a sample of the design capability of the AMF Amplifier Department. For variations to the models listed within this section, please contact UKRF for technical assistance.



## MEDIUM POWER AMPLIFIERS

MODEL NUMBER	OPERATING FREQUENCY (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE FIGURE (dB, Max.)	OUTPUT POWER (dBm, Min.)	VSWR IN/OUT (Max.)	DC POWER @ +15 V	
							(mA)	Nom.)
<b>DRAWING COAXIAL MILLIMETER WAVE</b>								
AMF-3F-17702200-60-17P	17.7–22	15	1.5	6	17	2:1	150	128066-3
AMF-4F-17702200-50-17P	17.7–22	20	1.5	5	17	2:1	200	128066-4
AMF-5F-17702200-50-17P	17.7–22	25	1.5	5	17	2:1	250	128061-5
AMF-6F-17702200-50-17P	17.7–22	30	1.5	5	17	2:1	300	128061-6
AMF-3F-17702200-60-20P	17.7–22	15	1.5	6	20	2:1	200	128066-3
AMF-4F-17702200-50-20P	17.7–22	20	1.5	5	20	2:1	250	128066-4
AMF-5F-17702200-50-20P	17.7–22	25	1.5	5	20	2:1	300	128061-5
AMF-6F-17702200-50-20P	17.7–22	30	1.5	5	20	2:1	350	128061-6
AMF-3F-17702200-60-22P	17.7–22	15	1.5	6	22	2:1	500	161196
AMF-5F-17702200-50-22P	17.7–22	25	1.5	5	22	2:1	600	161196
AMF-3F-18002650-60-17P	18–26.5	15	2	6	17	2:1/2.5:1	150	128066-3
AMF-4F-18002650-50-17P	18–26.5	20	2	5	17	2:1/2.5:1	200	128066-4
AMF-5F-18002650-50-17P	18–26.5	25	2	5	17	2:1/2.5:1	250	128061-5
AMF-6F-18002650-50-17P	18–26.5	30	2	5	17	2:1/2.5:1	300	128061-6
AMF-3F-18002650-60-20P	18–26.5	13	2	6	20	2:1/2.5:1	200	128066-3
AMF-4F-18002650-50-20P	18–26.5	18	2	5	20	2:1/2.5:1	250	128066-4
AMF-5F-18002650-50-20P	18–26.5	23	2	5	20	2:1/2.5:1	300	128061-5
AMF-6F-18002650-50-20P	18–26.5	28	2	5	20	2:1/2.5:1	350	128061-6
AMF-3F-18002650-60-22P	18–26.5	15	2	6	22	2:1/2.5:1	500	161196
AMF-5F-18002650-50-22P	18–26.5	25	2	5	22	2:1/2.5:1	600	161196
AMF-4F-18002650-90-23P*	18–26.5	20	2	9	23	2.5:1	400	139732
AMF-6F-18002650-80-23P*	18–26.5	30	2	8	23	2.5:1	500	139732
AMF-4F-18004000-90-20P*	18–40	18	3	9	20	3:1	600	161196
AMF-4F-20003000-90-20P*	20–30	15	2.5	9	20	2.5:1	450	161196
AMF-6F-20003000-90-20P*	20–30	25	2.5	9	20	2.5:1	550	161196
AMF-4F-20003000-90-22P*	20–30	15	2.5	9	22	2.5:1	500	161196
AMF-6F-20003000-90-22P*	20–30	25	2.5	9	22	2.5:1	600	161196
AMF-4F-20004000-90-20P*	20–40	15	3	9	20	3:1	450	161196
AMF-6F-20004000-90-20P*	20–40	25	3	9	20	3:1	550	161196
AMF-4F-20004000-90-22P*	20–40	15	3	9	22	3:1	500	161196
AMF-6F-20004000-90-22P*	20–40	25	3	9	22	3:1	600	161196
AMF-3F-27503100-60-15P	27.5–31	15	2	6	15	2.5:1	100	128066-3
AMF-4F-27503100-50-15P	27.5–31	20	2	5	15	2.5:1	150	128066-4
AMF-5F-27503100-50-15P	27.5–31	25	2	5	15	2.5:1	200	128061-5
AMF-6F-27503100-50-15P	27.5–31	30	2	5	15	2.5:1	250	128061-6
AMF-3F-27503100-60-17P	27.5–31	15	2	6	17	2.5:1	150	128066-3
AMF-4F-27503100-50-17P	27.5–31	20	2	5	17	2.5:1	200	128066-4
AMF-5F-27503100-50-17P	27.5–31	25	2	5	17	2.5:1	250	128061-5
AMF-6F-27503100-50-17P	27.5–31	30	2	5	17	2.5:1	300	128061-6
AMF-3F-27503100-60-19P	27.5–31	15	2	6	19	2.5:1	200	128066-3
AMF-4F-27503100-50-19P	27.5–31	20	2	5	19	2.5:1	250	128066-4
AMF-5F-27503100-50-19P	27.5–31	25	2	5	19	2.5:1	300	128061-5
AMF-6F-27503100-50-19P	27.5–31	30	2	5	19	2.5:1	350	128061-6
AMF-4F-27503100-90-20P*	27.5–31	15	2	9	20	2.5:1	450	161196
AMF-6F-27503100-90-20P*	27.5–31	30	2	9	20	2.5:1	450	139732

\* These models will require a -12 VDC @ 50 mA nominal in addition to the +12 VDC.

## MEDIUM POWER AMPLIFIERS (CONT.)

MODEL NUMBER	OPERATING FREQUENCY (GHz)	GAIN (dB, Min.)	GAIN FLATNESS ( $\pm$ dB, Max.)	NOISE FIGURE (dB, Max.)	OUTPUT POWER (dBm, Min.)	VSWR INOUT (Max.)	DC POWER @ +15 V (mA, Nom.)	
<b>DRAWING COAXIAL MILLIMETER WAVE (CONT.)</b>								
AMF-4F-27503100-90-22P*	27.5–31	15	2	9	22	2.5:1	500	161196
AMF-6F-27503100-90-23P*	27.5–31	30	2	9	23	2.5:1	500	139732
AMF-6F-27503100-90-25P*	27.5–31	18	2	9	25	2.5:1	750	138002
AMF-8F-27503100-90-25P*	27.5–31	30	2	9	25	2.5:1	850	138002
AMF-6F-27503100-90-27P*	27.5–31	18	2	9	27	2.5:1	800	138002
AMF-8F-27503100-90-27P*	27.5–31	30	2	9	27	2.5:1	900	138002
AMF-6F-27503100-90-29P*	27.5–31	18	2	9	29	2.5:1	900	138002
AMF-8F-27503100-90-29P*	27.5–31	30	2	9	29	2.5:1	1000	138002
AMF-5F-34003700-90-20P*	34–37	15	1.5	9	20	2.5:1	450	161196
AMF-7F-34003700-90-20P*	34–37	25	1.5	9	20	2.5:1	550	161196
AMF-5F-34003700-90-22P*	34–37	15	1.5	9	22	2.5:1	400	161196
AMF-7F-34003700-90-22P*	34–37	25	1.5	9	22	2.5:1	500	161196
AMF-5F-37004000-90-20P*	37–40	15	1.5	9	20	2.5:1	450	161196
AMF-7F-37004000-90-20P*	37–40	25	1.5	9	20	2.5:1	550	161196
AMF-5F-37004000-90-22P*	37–40	15	1.5	9	22	2.5:1	500	161196
AMF-7F-37004000-90-22P*	37–40	25	1.5	9	22	2.5:1	600	161196
AMF-8F-37004100-90-25P*	37–41	20	2.5	9	25	2.5:1	1300	138002
AMF-10F-37004100-90-25P*	37–41	30	2.5	9	25	2.5:1	1400	138002
AMF-8F-37004100-90-27P*	37–41	20	2.5	9	27	2.5:1	1400	138002
AMF-10F-37004100-90-27P*	37–41	30	2.5	9	27	2.5:1	1500	138002
AMF-8F-37004100-90-29P*	37–41	20	2.5	9	29	2.5:1	1600	138002
AMF-10F-37004100-90-29P*	37–41	30	2.5	9	29	2.5:1	1700	138002
AMF-10F-40004200-90-24P*	40–42	25	3	9	24	3:1	1500	138002
AMF-10F-40004200-90-27P*	40–42	25	3	9	27	3:1	1700	138002

\* These models will require a -12 VDC @ 50 mA nominal in addition to the +12 VDC.

<b>MULTIOCTAVE BAND</b>								
AMF-2D-00010200-30-23P	0.01–2	19	2	3*	23	2:1	500	118406-2
AMF-3D-00010300-40-16P	0.01–3	30	1.5	4*	16	2:1	300	114293-3
AMF-4D-00010300-25-20P	0.01–3	45	2	2.5*	20	2:1	500	118406-4
AMF-2D-00010400-32-22P	0.01–4	18	2.5	3.2*	22	2.2:1	500	118406-2
AMF-4D-00100600-50-25P	0.01–6	34	2	5*	25	2.2:1	1100	114293-4
AMF-2D-00100200-16-15P	0.1–2	24	1	1.6	15	2:1	135	114293-2
AMF-3D-00100200-14-15P	0.1–2	37	1	1.4	15	2:1	180	114293-3
AMF-2D-00100200-18-18P	0.1–2	24	1	1.8	18	2:1	145	114293-2
AMF-3D-00100200-14-18P	0.1–2	37	1	1.4	18	2:1	190	110699-3
AMF-1D-00100200-70-23P	0.1–2	10	1	7	23	2:1/2.3:1	240	114293-1
AMF-2D-00100200-47-23P	0.1–2	22	1	4.7	23	2:1/2.3:1	275	114293-2
AMF-3D-00100200-24-23P	0.1–2	35	1	2.4	23	2:1/2.3:1	375	114293-3

\* Noise figures unspecified below 0.1 GHz.

## MEDIUM POWER AMPLIFIERS (CONT.)

MODEL NUMBER	OPERATING FREQUENCY (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE FIGURE (dB, Max.)	OUTPUT POWER (dBm, Min.)	VSWR IN/OUT (Max.)	DC POWER @ +15 V (mA)	OUTLINE (Nom.)
<b>MULTIOCTAVE BAND (CONT.)</b>								
AMF-2D-00100200-48-25P	0.1–2	20	1	4.8	25	2:1/2.3:1	300	118406-2
AMF-3D-00100200-24-25P	0.1–2	32	1	2.4	25	2:1/2.3:1	380	118406-3
AMF-4D-00100200-17-25P	0.1–2	42	1	1.7	25	2:1/2.3:1	450	118406-4
AMF-3D-00100200-60-27P	0.1–2	25	2	6	27	2:1/2.3:1	475	118406-3
AMF-4D-00100200-40-27P	0.1–2	40	1.5	4	27	2:1/2.3:1	750	118406-4
AMF-2D-00100400-48-24P	0.1–4	18	1.5	4.8	24	2:1/2.3:1	300	118406-2
AMF-3D-00100400-28-24P	0.1–4	29	1.5	2.8	24	2:1/2.3:1	380	118406-3
AMF-4D-00100400-21-24P	0.1–4	40	1.5	2.1	24	2:1/2.3:1	450	118406-4
AMF-2D-00100600-50-23P	0.1–6	18	1.5	5	23	2.3:1	340	118406-2
AMF-3D-00100600-37-23P	0.1–6	28	1.5	3.7	23	2.3:1	385	118406-3
AMF-4D-00100600-27-23P	0.1–6	38	1.5	2.7	23	2.3:1	430	118406-4
AMF-2D-00100800-70-23P	0.1–8	17	1.5	7	23	2.3:1	380	118406-2
AMF-3D-00100800-40-23P	0.1–8	28	1.5	4	23	2.3:1	440	118406-3
AMF-4D-00100800-50-23P	0.1–8	38	1.5	5	23	2.3:1	440	118406-4
AMF-2D-00101000-55-21P	0.1–10	16	1.5	5.5	21	2:1/2.3:1	240	114293-2
AMF-3D-00101000-40-21P	0.1–10	27	1.5	4	21	2:1/2.3:1	285	114293-3
AMF-4D-00101000-32-21P	0.1–10	37	1.5	3.2	21	2:1/2.3:1	330	114293-4
AMF-3D-00101200-47-20P	0.1–12	20	1.5	4.7	20	2:1/2.3:1	250	121622
AMF-4D-00101200-42-20P	0.1–12	28	1.5	4.2	20	2:1/2.3:1	290	121623-4
AMF-5D-00101200-30-20P	0.1–12	34	1.5	3	20	2:1/2.3:1	330	121623-5
AMF-3D-00101800-70-20P	0.1–18	14	2	7	20	2.3:1/2.5:1	295	121622
AMF-4D-00101800-60-20P	0.1–18	21	2	6	20	2.3:1/2.5:1	340	121623-4
AMF-5D-00101800-45-20P	0.1–18	29	2	4.5	20	2.3:1/2.5:1	375	121623-5
AMF-6D-00101800-35-20P	0.1–18	37	2	3.5	20	2.3:1/2.5:1	410	121623-6
AMF-4D-00102000-70-18P	0.1–20	20	2.25	7	18	2.3:1/2.5:1	340	121623-4
AMF-5D-00102000-55-18P	0.1–20	28	2.25	5.5	18	2.3:1/2.5:1	375	121623-5
AMF-6D-00102000-40-18P	0.1–20	36	2.25	4	18	2.3:1/2.5:1	410	121623-6
AMF-4D-00102000-50-20P	0.1–20	18	2.25	5	20	2.3:1/2.3:1	375	121623-4
AMF-2D-00500200-22-21P	0.5–2	23	1	2.2	21	2:1/2.3:1	195	114293-2
AMF-1D-00500200-60-23P	0.5–2	10	1	6	23	2:1/2.3:1	240	114293-1
AMF-2D-00500200-45-23P	0.5–2	22	1	4.5	23	2:1/2.3:1	330	114293-2
AMF-3D-00500200-22-23P	0.5–2	34	1	2.2	23	2:1/2.3:1	375	114293-3
AMF-2D-00500800-53-26P	0.5–8	15	1.5	5.3	26	2:1/2.3:1	560	118406-2
AMF-3D-00500800-57-26P	0.5–8	25	1.5	5.7	26	2:1/2.3:1	660	118406-3
AMF-4D-00500800-47-26P	0.5–8	36	1.5	4.7	26	2:1/2.3:1	720	118406-4
AMF-2D-00501800-70-17P	0.5–18	10	2	7	17	2.3:1	200	122686
AMF-4D-00501800-50-21P	0.5–18	24	2	5	21	2:1/2.3:1	375	121623-4
AMF-4D-00800300-15-24P	0.8–3	40	0.75	1.5	24	2:1	500	118406-4
AMF-3D-01001800-80-20P	1–18	14	2	8	20	2.3:1	295	121622
AMF-4D-01001800-50-20P	1–18	22	2	5	20	2:1/2.3:1	340	121623-4
AMF-5D-01001800-40-20P	1–18	30	1.5	4	20	2:1/2.3:1	375	121623-5
AMF-5D-01001800-50-22P	1–18	30	2	5	22	2.2:1	700	128871

## MEDIUM POWER AMPLIFIERS (CONT.)

MODEL NUMBER	OPERATING FREQUENCY (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE FIGURE (dB, Max.)	OUTPUT POWER (dBm, Min.)	VSWR INOUT (Max.)	DC POWER @ +15 V (mA, Nom.)	
<b>DRAWING MULTIOCTAVE BAND (CONT.)</b>								
AMF-2D-02000600-34-25P	2–6	18	1.5	3.4	25	2:1	400 114293-2	
AMF-2D-02000800-51-21P	2–8	19	1.5	5.1	21	2:1/2.3:1	240 114293-2	
AMF-3D-02000800-36-21P	2–8	30	1.5	3.6	21	2:1/2.3:1	283 114293-3	
AMF-4D-02000800-27-21P	2–8	41	1.5	2.7	21	2:1/2.3:1	330 114293-4	
AMF-2D-02000800-70-27P	2–8	16	1.5	7	27	2:1/2.3:1	500 118406-2	
AMF-3D-02000800-50-27P	2–8	26	1.5	5	27	2:1/2.3:1	650 118406-3	
AMF-4D-02000800-40-27P	2–8	37	1.5	4	27	2:1/2.3:1	750 118406-4	
AMF-2B-02000800-70-27P	2–8	15	1.5	7	27	2:1	560 145393-2	
AMF-3B-02000800-55-27P	2–8	25	1.5	5.5	27	2:1	660 145393-3	
AMF-4B-02000800-45-27P	2–8	36	1.5	4.5	27	2:1	720 145393-4	
AMF-2D-02001200-60-20P	2–12	14	1.5	6	20	2:1/2.3:1	205 121622	
AMF-3D-02001200-43-20P	2–12	22	1.5	4.3	20	2:1/2.3:1	265 121622	
AMF-4D-02001200-33-20P	2–12	31	1.5	3.3	20	2:1/2.3:1	300 121623-4	
AMF-5D-02001200-40-25P	2–12	32	1.5	4	25	2:1	700 128871	
AMF-3D-02001800-53-18P	2–18	18	2	5.3	18	2:1/2.3:1	245 121622	
AMF-4D-02001800-38-18P	2–18	26	1.5	3.8	18	2:1/2.3:1	280 121623-4	
AMF-6D-02001800-31-18P	2–18	38	1.5	3.1	18	2.2:1	475 121623-6	
AMF-3D-02001800-60-20P	2–18	15	2	6	20	2.3:1/2.5:1	275 121622	
AMF-4D-02001800-55-20P	2–18	23	1.5	5.5	20	2:1/2.3:1	340 121623-4	
AMF-5D-02001800-40-20P	2–18	30	1.5	4	20	2:1/2.3:1	375 121623-5	
AMF-6D-02001800-29-20P	2–18	38	1.5	2.9	20	2:1/2.3:1	445 121623-6	
AMF-5D-02001800-50-22P	2–18	30	2	5	22	2.2:1	700 128871	
AMF-2B-08001800-80-27P	8–18	7	1.5	8	27	2:1	800 117469-1	
AMF-3B-08001800-80-27P	8–18	11	1.5	8	27	2:1	1000 117469-2	
AMF-4B-08001800-80-27P	8–18	17	1.5	8	27	2:1	1150 117469-3	
AMF-5B-08001800-80-27P	8–18	20	2	8	27	2:1	1200 117469-4	
AMF-6B-08001800-70-27P	8–18	25	2	7	27	2:1	1300 117469-5	
AMF-7B-08001800-60-27P	8–18	30	2	6	27	2:1	1400 117469-6	
AMF-9B-08001800-70-29P	8–18	30	2.5	7	29	2/2.3:1	3000 119683	
AMF-3D-02002650-80-19P	2–26.5	20	3	8	19	2.3:1	+15 V/+750 -15/-50 137141	
AMF-3D-20003000-90-20P	20–30	12	2	9	20	2.5:1	+15 V/+550 -15/-50 125294	
AMF-5D-20004000-90-16P	20–40	24	3	9	16	2.5:1	+15 V/+450 -15/-50 125294	
<b>OCTAVE BAND</b>								
AMF-1B-00500100-40-25P	0.5–1	12	1	4	25	2:1	250 143477-1	
AMF-2B-00500100-12-25P	0.5–1	28	1	1.2	25	2:1	300 143477-2	
AMF-3B-00500100-12-25P	0.5–1	42	1	1.2	25	2:1	360 143477-3	
AMF-4B-00500100-10-25P	0.5–1	56	1	1	25	2:1	400 143477-4	
AMF-2F-00500100-13-27P	0.5–1	30	1	1.3	27	2:1	425 118987-2	
AMF-3F-00700170-25-26P	0.7–1.7	30	1	2.5	26	2:1	380 118987-3	
AMF-1B-01000200-40-25P	1–2	10	1	4	25	2:1	250 143477-1	
AMF-2B-01000200-13-25P	1–2	30	1	1.3	25	2:1	300 143477-2	
AMF-3B-01000200-10-25P	1–2	42	1	1	25	2:1	360 143477-3	
AMF-4B-01000200-10-25P	1–2	54	1	1	25	2:1	400 143477-4	
AMF-2F-01000200-13-25P	1–2	28	1	1.3	25	2:1	280 118987-2	

## MEDIUM POWER AMPLIFIERS (CONT.)

MODEL NUMBER	OPERATING FREQUENCY (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE FIGURE (dB, Max.)	OUTPUT POWER (dBm, Min.)	VSWR IN/OUT (Max.)	DC POWER @ +15 V	
							(mA)	(Nom.)
<b>DRAWING OCTAVE BAND</b>								
AMF-2F-01200250-15-27P	1.2–2.5	22	1.5	1.5	27	2:1	325	118987-2
AMF-1B-02000400-40-25P	2–4	11	1	4	25	2:1	250	143477-1
AMF-2B-02000400-30-25P	2–4	22	1	3	25	2:1	330	143477-2
AMF-3B-02000400-15-25P	2–4	35	1	1.5	25	2:1	400	143477-3
AMF-4B-02000400-13-25P	2–4	47	1	1.3	25	2:1	440	143477-4
AMF-2B-04000800-45-25P	4–8	14	1	4.5	25	2:1	380	118406-2
AMF-3B-04000800-25-25P	4–8	25	1	2.5	25	2:1	450	118406-3
AMF-4B-04000800-15-25P	4–8	36	1	1.5	25	2:1	490	118406-4
AMF-5B-04000800-15-25P	4–8	47	1	1.5	25	2:1	540	118987-5
AMF-6B-04000800-15-25P	4–8	59	1	1.5	25	2:1	580	118987-6
AMF-2B-04000800-40-27P	4–8	25	1	4	27	2:1	300	163639-14
AMF-2B-04000800-70-27P	4–8	16	1	7	27	2:1	600	145393-2
AMF-1B-04000800-80-28P	4–8	6	1.5	8	28	2:1	450	145393-2
AMF-2B-08001200-45-24P	8–12	16	1	4.5	24	2:1	330	118406-2
AMF-3B-08001200-55-25P	8–12	20	1	5.5	25	2:1	450	118406-3
AMF-4B-08001200-30-25P	8–12	30	1	3	25	2:1	520	118406-4
AMF-5B-08001200-30-25P	8–12	40	1.5	3	25	2:1	450	118987-5
AMF-6B-08001200-30-25P	8–12	50	1	3	25	2:1	490	118987-6
AMF-1B-08001200-100-27P	8–12	4	2	10	27	2:1	450	145393-2
AMF-2B-08001200-80-27P	8–12	9	1.5	8	27	2:1	680	145393-2
AMF-3B-08001200-100-29P	8–12	12	1.5	10	29	2:1	1300	145393-3
AMF-4B-08001200-90-29P	8–12	20	1.5	9	29	2:1	1300	145393-4
AMF-2B-12001800-90-25P	12–18	9	1	9	25	2:1	500	117469-1
AMF-3B-12001800-50-25P	12–18	15	1	5	25	2:1	580	117469-2
AMF-4B-12001800-45-25P	12–18	21	1.5	4.5	25	2:1	650	117469-3
AMF-5B-12001800-45-25P	12–18	27	1.5	4.5	25	2:1	700	117469-4
AMF-6B-12001800-45-25P	12–18	33	1.5	4.5	25	2:1	740	117469-5
AMF-2B-12001800-80-27P	12–18	7	1.5	8	27	2:1	800	117469-3
AMF-3B-12001800-70-27P	12–18	11	1.5	7	27	2:1	1000	117469-3
AMF-4B-12001800-70-27P	12–18	17	1.5	7	27	2:1	1150	117469-4
AMF-5B-12001800-60-28P	12–18	18	2	6	28	2:1	1600	117469-5
AMF-6B-12001800-50-28P	12–18	24	2	5	28	2:1	1700	117469-6
AMF-8B-12001800-60-29P	12–18	32	2.5	6	29	2:1	2400	115800-8
AMF-7B-18002150-80-23P	18–21.5	30	1.5	8	23	2:1	900	117469-6

## POWER AMPLIFIERS

MODEL NUMBER	OPERATING FREQUENCY (GHz)	GAIN (dB, Min.)	GAIN FLATNESS ( $\pm$ dB, Max.)	NOISE FIGURE (dB, Max.)	OUTPUT POWER (dBm, Min.)	VSWR IN/OUT (Max.)	DC POWER @ +15 V (A)	OUTLINE (Nom.)
AMF-4D-00100100-30-30P	0.1–1	44	1	3	30	2.2:1	0.85	118406-4
AMF-1B-00500100-60-30P	0.5–1	12	1	6	30	2:1	0.5	143477-1
AMF-2B-00500100-45-33P	0.5–1	25	1.5	4.5	33	2:1	1.3	143477-2
AMF-3B-00500100-13-33P	0.5–1	43	1.5	1.3	33	2:1	1.7	143477-3
AMF-4B-00500100-13-33P	0.5–1	55	1.5	1.3	33	2:1	1.8	143477-4
AMF-1D-00500200-70-30P	0.5–2	8	1	7	30	2:1/2.3:1	0.4	114293-1
AMF-2D-00500200-60-30P	0.5–2	18	1	6	30	2:1/2.3:1	0.65	118406-2
AMF-3D-00500200-45-30P	0.5–2	29	1	4.5	30	2:1/2.3:1	0.8	118406-3
AMF-4D-00500200-35-30P	0.5–2	41	1	3	30	2:1/2.3:1	0.9	118406-4
AMF-3D-00500200-50-31P	0.5–2	36	1.5	5	31	2.2:1	0.9	118406-3
AMF-4D-00500200-25-33P	0.5–2	40	2	2.5	33	2:1/2.3:1	1.4	125420
AMF-1B-02703800-70-34P	0.8–2.5	30	3	7	34	2.3:1	1.6	117558-4
AMF-1B-01000200-60-30P	1–2	11	1	6	30	2:1	0.5	143477-1
AMF-3B-01000200-20-33P	1–2	35	1	2	33	1.5:1	1.2	143477-4
AMF-2B-01000200-70-33P	1–2	13	1	7	33	2:1	1.3	143477-2
AMF-3B-01000200-45-33P	1–2	23	1	4.5	33	2:1	1.6	143477-3
AMF-5D-01000200-15-33P	1–2	50	1.5	1.5	33	2:1/2.3:1	1.5	125420
AMF-4B-01000200-20-33P	1–2	33	1	2	33	2:1	1.7	143477-4
AMF-2B-01201400-70-32P	1.2–1.4	21	0.5	7	32	1.5:1	1.2	143477-5
AMF-3B-01200140-60-34P	1.2–1.4	30	1	6	34	2:1/1.5:1	2	117558-4
AMF-1D-01000400-80-30P	1–4	8	1.5	8	30	2:1/2.3:1	0.4	114293-1
AMF-2D-01000400-60-30P	1–4	18	1.5	6	30	2:1/2.3:1	0.65	118406-2
AMF-3D-01000400-45-30P	1–4	28	1.5	4.5	30	2:1/2.3:1	0.8	118406-3
AMF-4D-01000400-35-30P	1–4	39	1.5	3.5	30	2:1/2.3:1	0.9	118406-4
AMF-1B-02000400-55-30P	2–4	10	1	5.5	30	1.5:1	0.5	143477-1
AMF-2B-02000400-40-30P	2–4	20	1	4	30	2:1	0.75	143477-2
AMF-3B-02000400-20-30P	2–4	35	1	2	30	2:1	0.95	143477-3
AMF-4B-02000400-20-33P	2–4	40	1.5	2	33	2:1	1.6	143477-4
AMF-2B-02000600-70-30P	2–6	13	1.5	7	30	2:1	0.72	145393-2
AMF-3B-02000600-80-33P	2–6	11	2	8	33	2:1	1.8	145393-3
AMF-4B-02000600-70-33P	2–6	20	2	7	33	2:1	2.1	117558-3
AMF-5B-02000600-70-33P	2–6	34	2	7	33	2:1	2.2	117558-4
AMF-6B-02000600-80-33P	2–6	40	2.5	8	33	2:1	3.2	145393-6
AMF-5B-02000800-55-30P	2–8	32	2	5.5	30	2:1	1.3	145393-5
AMF-6B-02000800-80-33P	2–8	40	3	8	33	2:1	3.2	117558-5
AMF-3B-02001800-60-30P	2–18	35	2.5	6	30	2:1/2.3:1	2.2	163559
AMF-3B-02001800-60-32P	2–18	33	2.5	6	32	2:1/2.3:1	4.5	162486
AMF-6B-02500270-30-40P	2.5–2.7	40	1	3	40	1.5:1	5	127402
AMF-6B-02700290-40-37P	2.7–2.9	40	1	4	37	1.5:1	4	127402

## POWER AMPLIFIERS (CONT.)

MODEL NUMBER	OPERATING FREQUENCY (GHz)	GAIN (dB, Min.)	GAIN FLATNESS ( $\pm$ dB, Max.)	NOISE FIGURE (dB, Max.)	OUTPUT POWER (dBm, Min.)	VSWR IN/OUT (Max.)	DC POWER @ +15 V (A)	OUTLINE Nom.)
AMF-1B-02803400-40-30P	2.7–3.8	12	0.5	4	30	2:1	0.6	157210
AMF-5F-02800900-50-25P-DET-3	2.8–9	35	0.7	5	25	2:1	0.55	163190
AMF-4B-03100350-50-36P	3.1–3.5	35	1	5	36	2:1/1.5:1	2.2	117251
AMF-4B-03100350-50-39P	3.1–3.5	35	1	5	39	2:1/1.5:1	3.3	117251
AMF-4B-03400390-50-36P	3.4–3.9	35	1	5	36	2:1/1.5:1	2.2	117251
AMF-4B-03400390-50-39P	3.4–3.9	35	1	5	39	2:1/1.5:1	3.3	117251
AMF-4B-03700420-50-36P	3.7–4.2	35	1	5	36	2:1/1.5:1	2.2	117251
AMF-4B-03700420-50-39P	3.7–4.2	35	1	5	39	2:1/1.5:1	3.3	117251
AMF-5B-04400500-50-33P	4.4–5	30	1	5	33	2:1/1.5:1	1.5	117558-5
AMF-4B-04400500-50-36P	4.4–5	35	1	5	36	2:1/1.5:1	2.2	117251
AMF-4B-04400500-50-39P	4.4–5	35	1	5	39	2:1/1.5:1	3.3	117251
AMF-3B-04000800-70-30P	4–8	19	1.5	7	30	2:1	1.1	145393-3
AMF-4B-04000800-70-30P	4–8	25	1.5	7	30	2:1	1.2	145393-4
AMF-5B-04000800-60-30P	4–8	33	1.5	6	30	2:1	1.4	145393-5
AMF-4B-04000800-50-33P	4–8	36	1	5	33	2:1	1.5	117558-4
AMF-5B-04000800-70-33P	4–8	33	1.5	5	33	2:1	2.2	116348-1
AMF-6B-04000800-60-33P	4–8	40	1	6	33	2:1	2.4	116348-1
AMF-4B-05000530-50-36P	5–5.3	35	1	5	36	2:1/1.5:1	2.2	117251
AMF-4B-05000530-50-39P	5–5.3	35	1	5	39	2:1/1.5:1	3.3	117251
AMF-4B-05300590-50-36P	5.3–5.9	35	1	5	36	2:1/1.5:1	2.2	117251
AMF-4B-05300590-50-39P	5.3–5.9	35	1	5	39	2:1/1.5:1	3.3	117251
AMF-5B-05400590-50-37P	5.4–5.9	35	1	5	37	2:1/1.5:1	3.5	118214
AMF-4B-05900640-50-33P	5.9–6.4	30	1	5	33	2:1/1.5:1	1.5	116879-1
AMF-4B-05900640-50-36P	5.9–6.4	35	1	5	36	2:1/1.5:1	2.1	117251
AMF-4B-05900640-50-38P	5.9–6.4	35	1	5	38	2:1/1.5:1	2.7	117251
AMF-4B-05900640-50-39P	5.9–6.4	35	1	5	39	2:1/1.5:1	3.3	117251
AMF-4B-05900720-50-36P	5.9–7.2	35	1	5	36	2:1/1.5:1	2.1	117251
AMF-4B-05900720-50-38P	5.9–7.2	35	1	5	38	2:1/1.5:1	3.3	127202
AMF-4B-06400720-50-36P	6.4–7.2	35	1	5	36	2:1/1.5:1	2.1	117251
AMF-4B-06400720-50-38P	6.4–7.2	35	1	5	38	2:1/1.5:1	2.7	127202
AMF-4B-06400720-50-39P	6.4–7.2	35	1	5	39	2:1/1.5:1	3.3	127202
AMF-5B-06001200-50-35P	6–12	35	2	5	35	2:1	2.8	127465
AMF-5B-06001300-50-35P	6–13	35	2	5	35	2:1	2.8	127465

## POWER AMPLIFIERS (CONT.)

MODEL NUMBER	OPERATING FREQUENCY (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE FIGURE (dB, Max.)	OUTPUT POWER (dBm, Min.)	VSWR IN/OUT (Max.)	DC POWER @+15 V (A)	OUTLINE (Nom.)
AMF-8B-06001800-60-31P	6–18	31	2	6	31	2:1	2	127465
AMF-6B-06001800-80-33P	6–18	35	2.5	8	33	2.2:1	2.8	127465
AMF-2B-06001800-80-35P	6–18	35	2.5	8	35	2.2:1	6.5	163559
AMF-3B-06001800-60-40P	6–18	33	3	6	40	2:1/2.4:1	12	162486
AMF-5B-07100790-50-36P	7.1–7.9	35	1	5	36	2:1/1.5:1	2.1	117251
AMF-5B-07100790-50-38P	7.1–7.9	35	1	5	38	2:1/1.5:1	2.7	127202
AMF-5B-07100790-50-39P	7.1–7.9	35	1	5	39	2:1/1.5:1	3.3	127202
AMF-5B-07100850-50-37P	7.1–8.5	35	1	5	37	2:1/1.5:1	2.7	127202
AMF-5B-07700850-50-36P	7.7–8.5	35	1	5	36	2:1/1.5:1	2.1	117251
AMF-5B-07700850-50-38P	7.7–8.5	35	1	5	38	2:1/1.5:1	2.7	127202
AMF-5B-07700850-50-39P	7.7–8.5	35	1	5	39	2:1/1.5:1	3.3	127202
AMF-6B-07900840-50-33P	7.9–8.4	35	1	5	33	2:1/1.5:1	1.5	115420-1
AMF-5B-08001200-80-30P	8–12	24	1.5	8	30	2:1	1.2	116348-1
AMF-6B-08001200-35-30P	8–12	35	1.5	3.5	30	2:1	1.8	145393-4
AMF-6B-08001200-50-33P	8–12	33	1.5	5	33	2:1	2	116348-1
AMF-5B-08001200-50-35P	8–12	35	2	5	35	2:1	2.8	127465
AMF-3B-08001200-60-40P	8–12	33	2	6	40	2:1/2.3:1	12	162486
AMF-8B-08001800-60-31P	8–18	31	2	6	31	2:1	2	127465
AMF-6B-08001800-80-33P	8–18	35	2.5	8	33	2:1	2.8	127465
AMF-5B-08500960-50-38P	8.5–9.6	35	1	5	38	2:1/1.5:1	3.3	127202
AMF-5B-08500960-50-40P	8.5–9.6	35	1	5	40	2:1/1.5:1	4.7	127202
AMF-5B-08500960-50-41P	8.5–9.6	35	1	5	41	2:1/1.5:1	4.8	127202
AMF-6B-09501050-50-38P	9.5–10.5	35	1	5	38	2:1/1.5:1	3.3	127202
AMF-6B-09501050-50-40P	9.5–10.5	35	1	5	40	2:1/1.5:1	4.1	127202
AMF-3B-09501150-60-41P	9.5–11.5	33	1.5	6	41	2:1/2.3:1	12	162486
AMF-5B-09701020-60-33P	9.7–10.2	30	1	6	33	2:1/1.5:1	1.6	115420-1
AMF-6B-10701170-50-38P	10.7–11.7	35	1	5	38	2:1/1.5:1	3.3	127202
AMF-6B-10701170-50-40P	10.7–11.7	35	1	5	40	2:1/1.5:1	4.7	127202
AMF-6B-10701170-50-41P	10.7–11.7	35	1	5	41	2:1/1.5:1	4.8	127202
AMF-8B-12001800-60-31P	12–18	33	2	6	31	2:1	2	127465
AMF-6B-12001800-70-33P	12–18	35	2	7	33	2:1	2.8	127465

## POWER AMPLIFIERS (CONT.)

MODEL NUMBER	OPERATING FREQUENCY (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE FIGURE (dB, Max.)	OUTPUT POWER (dBm, Min.)	VSWR IN/OUT (Max.)	DC POWER @ +15 V (A)	OUTLINE Nom.)
AMF-6B-12701320-50-40P	12.7–13.2	35	1	5	40	2:1/1.5:1	4.7	127202
AMF-6B-13751450-50-40P	13.75–14.5	35	1	5	40	2:1/1.5:1	5.4	127202
AMF-9B-14001450-70-37P-WG	14–14.5	50	1	7	37	1.5:1	7	118209
AMF-6B-14001450-50-40P	14–14.5	35	1	5	40	2:1/1.5:1	4.7	127202
AMF-6B-14001450-50-41P	14–14.5	35	1	5	41	2:1/1.5:1	5.5	127202
AMF-7B-14001600-80-30P	14–16	30	1.5	8	30	2:1	2.3	115420-1
AMF-6F-27503100-90-30P*	27.5–31	18	2	9	30	2.5:1	0.95	138002
AMF-8F-27503100-90-30P*	27.5–31	30	2	9	30	2.5:1	1.05	138002
AMF-8F-37004100-90-30P*	37–41	20	2.5	9	30	2.5:1	1.65	138002
AMF-10F-37004100-90-30P*	37–41	30	2.5	9	30	2.5:1	1.75	138002

\* These models will require a -12 VDC @ 50 mA nominal in addition to the +12 VDC.

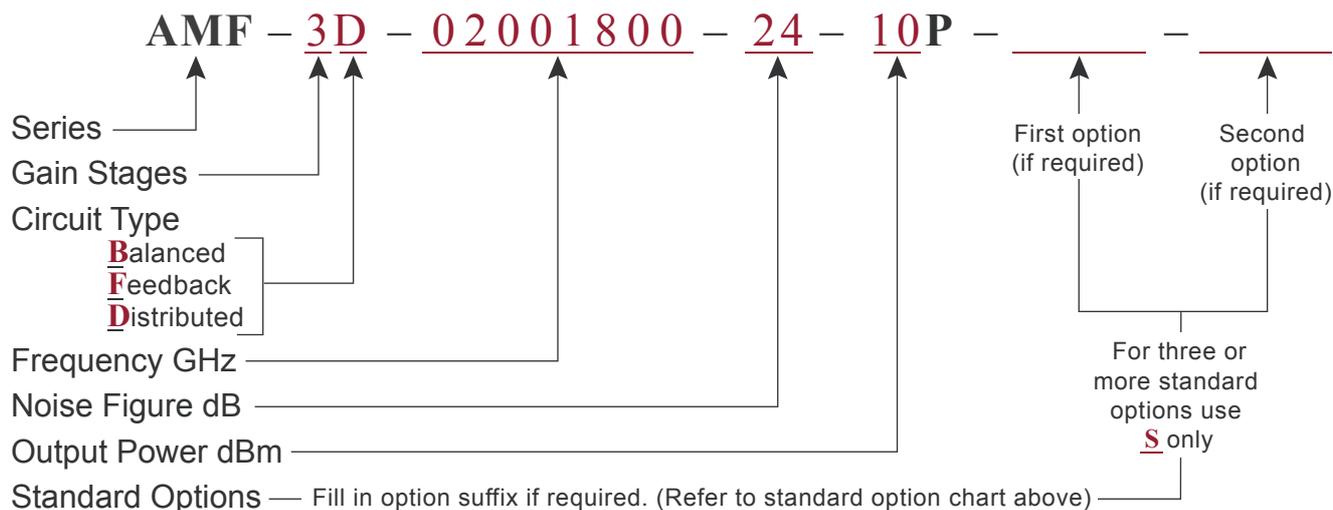
## GENERAL AMPLIFIER OPTIONS

Options for a variety of special performance and testing requirements as well as connector types can be identified by adding a suffix to the part number. The table below lists the most commonly requested options. Option requests should be accompanied by a description of the required performance details as applicable.

STANDARD OPTIONS	SUFFIX	STANDARD CONNECTOR OPTIONS	SUFFIX
Input Limiter	-L	K Type Connector	-K
Gain Window	-GW	V Type Connector	-V
Gain Flatness	-GF	N Type Connector	-N
Temperature Compensation	-TC	TNC Type Connector	-T
Phase Match	-PM	SMA Male Connector	-M
Amplitude Match	-AM	Waveguide Input	-WG
Amplitude/Phase Match	-APM		
Gain Control	-GC		
Hermetic	-H		
Bias Through Output	-BTO		
Bias Through Input	-BTI		
Specific Operating Voltage	-XXDC*		
Gain Slope	-GS		
Power Supply	-PS		
Fault Alarm	-F		
Combination of three or more standard options	-S		

Notes: When specifying these options, please include applicable detailed information.  
\* XX is the DC operating voltage

## ORDERING INFORMATION



## GENERAL SPECIFICATIONS

MITEQ's standard amplifiers have been designed to typically meet the following conditions:

Operating temperature..... -30 to +75°C Storage temperature..... -40 to +85°C  
 Humidity..... 95% relative humidity, noncondensing

Vibration..... 7.3 g's rms, 20-2000 CPS, per MIL-STD-810B, Method 514, Procedure 5

Data curves are at 25°C..... There will be some variation in the typical data shown as a function of temperature

Out of band gain..... Unless otherwise specified <5 dB above in band gain