

LOW-NOISE SATCOM AMPLIFIERS

MODEL NUMBER	OPERATING FREQUENCY (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE TEMP. (dB, Max.)	OUTPUT POWER (dBm, Min.)	VSWR IN/OUT (Max.)	DC POWER @ +15 V (mA, Nom.)	OUTLINE DRAWING
C-BAND WAVEGUIDE INPUT								
AMFW-5S-340420-28	3.4-4.2	40	0.5	28	10	1.25:1/1.5:1	175	125063-1
AMFW-5S-340420-30	3.4-4.2	40	0.5	30	10	1.25:1/1.5:1	175	125063-1
AMFW-5S-340420-35	3.4-4.2	40	0.5	35	10	1.25:1/1.5:1	175	125063-1
AMFW-5S-340420-40	3.4-4.2	40	0.5	40	10	1.25:1/1.5:1	175	125063-1
AMFW-5S-340420-50	3.4-4.2	40	0.5	50	10	1.25:1/1.5:1	175	125063-1
AMFW-5S-340420-60	3.4-4.2	40	0.5	60	10	1.25:1/1.5:1	175	125063-1
AMFW-6S-340420-28	3.4-4.2	50	0.5	28	10	1.25:1/1.5:1	200	125063-1
AMFW-6S-340420-30	3.4-4.2	50	0.5	30	10	1.25:1/1.5:1	200	125063-1
AMFW-6S-340420-35	3.4-4.2	50	0.5	35	10	1.25:1/1.5:1	200	125063-1
AMFW-6S-340420-40	3.4-4.2	50	0.5	40	10	1.25:1/1.5:1	200	125063-1
AMFW-6S-340420-50	3.4-4.2	50	0.5	50	10	1.25:1/1.5:1	200	125063-1
AMFW-6S-340420-60	3.4-4.2	50	0.5	60	10	1.25:1/1.5:1	200	125063-1
AMFW-7S-340420-28	3.4-4.2	60	0.5	28	10	1.25:1/1.5:1	225	125063-1
AMFW-7S-340420-30	3.4-4.2	60	0.5	30	10	1.25:1/1.5:1	225	125063-1
AMFW-7S-340420-35	3.4-4.2	60	0.5	35	10	1.25:1/1.5:1	225	125063-1
AMFW-7S-340420-40	3.4-4.2	60	0.5	40	10	1.25:1/1.5:1	225	125063-1
AMFW-7S-340420-50	3.4-4.2	60	0.5	50	10	1.25:1/1.5:1	225	125063-1
AMFW-7S-340420-60	3.4-4.2	60	0.5	60	10	1.25:1/1.5:1	225	125063-1
AMFW-6S-340500-35	3.4-5	50	1	35	10	1.5:1*	200	125063-1
AMFW-7S-340500-35	3.4-5	60	1	35	10	1.5:1*	225	125063-1
AMFW-5S-360420-28	3.6-4.2	40	0.5	28	10	1.25:1/1.5:1	175	125063-1
AMFW-5S-360420-30	3.6-4.2	40	0.5	30	10	1.25:1/1.5:1	175	125063-1
AMFW-5S-360420-35	3.6-4.2	40	0.5	35	10	1.25:1/1.5:1	175	125063-1
AMFW-5S-360420-40	3.6-4.2	40	0.5	40	10	1.25:1/1.5:1	175	125063-1
AMFW-5S-360420-50	3.6-4.2	40	0.5	50	10	1.25:1/1.5:1	175	125063-1
AMFW-5S-360420-60	3.6-4.2	40	0.5	60	10	1.25:1/1.5:1	175	125063-1
AMFW-6S-360420-28	3.6-4.2	50	0.5	28	10	1.25:1/1.5:1	200	125063-1
AMFW-6S-360420-30	3.6-4.2	50	0.5	30	10	1.25:1/1.5:1	200	125063-1
AMFW-6S-360420-35	3.6-4.2	50	0.5	35	10	1.25:1/1.5:1	200	125063-1
AMFW-6S-360420-40	3.6-4.2	50	0.5	40	10	1.25:1/1.5:1	200	125063-1
AMFW-6S-360420-50	3.6-4.2	50	0.5	50	10	1.25:1/1.5:1	200	125063-1
AMFW-6S-360420-60	3.6-4.2	50	0.5	60	10	1.25:1/1.5:1	200	125063-1
AMFW-7S-360420-28	3.6-4.2	60	0.5	28	10	1.25:1/1.5:1	225	125063-1
AMFW-7S-360420-30	3.6-4.2	60	0.5	30	10	1.25:1/1.5:1	225	125063-1
AMFW-7S-360420-35	3.6-4.2	60	0.5	35	10	1.25:1/1.5:1	225	125063-1
AMFW-7S-360420-40	3.6-4.2	60	0.5	40	10	1.25:1/1.5:1	225	125063-1
AMFW-7S-360420-50	3.6-4.2	60	0.5	50	10	1.25:1/1.5:1	225	125063-1
AMFW-7S-360420-60	3.6-4.2	60	0.5	60	10	1.25:1/1.5:1	225	125063-1
AMFW-5S-370420-28	3.7-4.2	40	0.5	28	10	1.25:1/1.5:1	175	125063-1
AMFW-5S-370420-30	3.7-4.2	40	0.5	30	10	1.25:1/1.5:1	175	125063-1
AMFW-5S-370420-35	3.7-4.2	40	0.5	35	10	1.25:1/1.5:1	175	125063-1
AMFW-5S-370420-40	3.7-4.2	40	0.5	40	10	1.25:1/1.5:1	175	125063-1
AMFW-5S-370420-50	3.7-4.2	40	0.5	50	10	1.25:1/1.5:1	175	125063-1
AMFW-5S-370420-60	3.7-4.2	40	0.5	60	10	1.25:1/1.5:1	175	125063-1
AMFW-6S-370420-28	3.7-4.2	50	0.5	28	10	1.25:1/1.5:1	200	125063-1
AMFW-6S-370420-30	3.7-4.2	50	0.5	30	10	1.25:1/1.5:1	200	125063-1
AMFW-6S-370420-35	3.7-4.2	50	0.5	35	10	1.25:1/1.5:1	200	125063-1
AMFW-6S-370420-40	3.7-4.2	50	0.5	40	10	1.25:1/1.5:1	200	125063-1
AMFW-6S-370420-50	3.7-4.2	50	0.5	50	10	1.25:1/1.5:1	200	125063-1
AMFW-6S-370420-60	3.7-4.2	50	0.5	60	10	1.25:1/1.5:1	200	125063-1

* Above 4.5 GHz, VSWR < 2:1.

LOW-NOISE SATCOM AMPLIFIERS (CONT.)

MODEL NUMBER	OPERATING FREQUENCY (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE TEMP. (dB, Max.)	OUTPUT POWER (dBm, Min.)	VSWR IN/OUT (Max.)	DC POWER @ +15 V (mA, Nom.)	OUTLINE DRAWING
C-BAND WAVEGUIDE INPUT (CONT.)								
AMFW-7S-370420-28	3.7–4.2	60	0.5	28	10	1.25:1/1.5:1	225	125063-1
AMFW-7S-370420-30	3.7–4.2	60	0.5	30	10	1.25:1/1.5:1	225	125063-1
AMFW-7S-370420-35	3.7–4.2	60	0.5	35	10	1.25:1/1.5:1	225	125063-1
AMFW-7S-370420-40	3.7–4.2	60	0.5	40	10	1.25:1/1.5:1	225	125063-1
AMFW-7S-370420-50	3.7–4.2	60	0.5	50	10	1.25:1/1.5:1	225	125063-1
AMFW-7S-370420-60	3.7–4.2	60	0.5	60	10	1.25:1/1.5:1	225	125063-1
AMFW-7S-400480-50	4–4.8	60	1	50	10	1.25:1/1.5:1	225	125063-1
AMFW-2F-054059-45	5.4–5.9	20	0.5	45	7	1.5:1	125	126487
AMFW-3F-054059-45	5.4–5.9	30	0.5	45	10	1.5:1	150	126487
ADDITIONAL SPECIFICATIONS								
<ul style="list-style-type: none"> • Operating temperature range -40 to +60°C (unless using an integrated fault alarm or power supply) • Gain variation vs. temperature (-40 to +60°C) 5 dB maximum • Output third order intercept (at +23°C) 20 dBm minimum 								
AVAILABLE SATCOM OPTIONS								
<ul style="list-style-type: none"> • Add suffix B Solder bias pin • Add suffix C Bias-tee (DC bias applied through the RF output connector) • Add suffix F Fault alarm circuitry (Form-C contact closure; operation limited to -15°C) • Add suffix NEG -24 VDC bias required • Add suffix O Integrated power supply (110/220 VAC; operation limited to -15°C; use Outline 125063-2) • Add suffix P1 15 dBm output power at 1 dB compression (OIP³ = 25 dBm; adds approximately 75 mA of current) • Add suffix P2 20 dBm output power at 1 dB compression (OIP³ = 30 dBm; adds approximately 150 mA of current) • Add suffix SMA SMA-female output connector • Add suffix TC Gain variation vs. temperature at 3 dB peak-to-peak • Add suffix TRF Lowpass filter (with >20 dB rejection at 5.2 GHz; operation limited to -15°C) 								
X-BAND WAVEGUIDE INPUT								
AMFW-7S-670775-60	6.70–7.75	62	0.75	60	10	1.5:1	200	138968-1
AMFW-5F-070090-60	7–9	40	1	60	10	2:1	200	127534-2
AMFW-5S-710840-50	7.1–8.4	40	1	50	10	1.5:1	100	138968-1
AMFW-5S-710840-55	7.1–8.4	40	1	55	10	1.5:1	100	138968-1
AMFW-5S-710840-60	7.1–8.4	40	1	60	10	1.5:1	100	138968-1
AMFW-5S-710840-65	7.1–8.4	40	1	65	10	1.5:1	100	138968-1
AMFW-6S-710840-50	7.1–8.4	50	1	50	10	1.5:1	125	138968-1
AMFW-6S-710840-55	7.1–8.4	50	1	55	10	1.5:1	125	138968-1
AMFW-6S-710840-60	7.1–8.4	50	1	60	10	1.5:1	125	138968-1
AMFW-6S-710840-65	7.1–8.4	50	1	65	10	1.5:1	125	138968-1
AMFW-7S-710840-50	7.1–8.4	60	1	50	10	1.5:1	150	138968-1
AMFW-7S-710840-55	7.1–8.4	60	1	55	10	1.5:1	150	138968-1
AMFW-7S-710840-60	7.1–8.4	60	1	60	10	1.5:1	150	138968-1
AMFW-7S-710840-65	7.1–8.4	60	1	65	10	1.5:1	150	138968-1
AMFW-4F-072078-65	7.2–7.8	45	0.5	65	10	1.5:1	150	127534-2
AMFW-6S-720840-60	7.2–8.4	50	1	60	10	1.5:1/1.8:1	170	138968-1

LOW-NOISE SATCOM AMPLIFIERS (CONT.)

MODEL NUMBER	OPERATING FREQUENCY (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE TEMP. (dB, Max.)	OUTPUT POWER (dBm, Min.)	VSWR IN/OUT (Max.)	DC POWER @ +15 V (mA, Nom.)	OUTLINE DRAWING
X-BAND WAVEGUIDE INPUT (CONT.)								
AMFW-5S-725775-45	7.25–7.75	40	1	45	10	1.25:1/1.5:1	100	138968-1
AMFW-5S-725775-50	7.25–7.75	40	1	50	10	1.25:1/1.5:1	100	138968-1
AMFW-5S-725775-50-UG138	7.25–7.75	40	0.5	50	10	1.25:1/1.5:1	130	127534-1
AMFW-5S-725775-55	7.25–7.75	40	1	55	10	1.25:1/1.5:1	100	138968-1
AMFW-5S-725775-60	7.25–7.75	40	1	60	10	1.25:1/1.5:1	100	138968-1
AMFW-5S-725775-65	7.25–7.75	40	1	65	10	1.25:1/1.5:1	100	138968-1
AMFW-6S-725775-45	7.25–7.75	50	1	45	10	1.25:1/1.5:1	125	138968-1
AMFW-6S-725775-50	7.25–7.75	50	1	50	10	1.25:1/1.5:1	125	138968-1
AMFW-6S-725775-55	7.25–7.75	50	1	55	10	1.25:1/1.5:1	125	138968-1
AMFW-6S-725775-60	7.25–7.75	50	1	60	10	1.25:1/1.5:1	125	138968-1
AMFW-6S-725775-65	7.25–7.75	50	1	65	10	1.25:1/1.5:1	125	138968-1
AMFW-7S-725775-45	7.25–7.75	60	1	45	10	1.25:1/1.5:1	150	138968-1
AMFW-7S-725775-50	7.25–7.75	60	1	50	10	1.25:1/1.5:1	150	138968-1
AMFW-7S-725775-55	7.25–7.75	60	1	55	10	1.25:1/1.5:1	150	138968-1
AMFW-7S-725775-60	7.25–7.75	60	1	60	10	1.25:1/1.5:1	150	138968-1
AMFW-7S-725775-65	7.25–7.75	60	1	65	10	1.25:1/1.5:1	150	138968-1
AMFW-5S-800840-50	8–8.4	40	1	50	10	1.5:1	100	138968-1
AMFW-5S-800840-55	8–8.4	40	1	55	10	1.5:1	100	138968-1
AMFW-5S-800840-60	8–8.4	40	1	60	10	1.5:1	100	138968-1
AMFW-5S-800840-65	8–8.4	40	1	65	10	1.5:1	100	138968-1
AMFW-6S-800840-50	8–8.4	50	1	50	10	1.5:1	125	138968-1
AMFW-6S-800840-55	8–8.4	50	1	55	10	1.5:1	125	138968-1
AMFW-6S-800840-60	8–8.4	50	1	60	10	1.5:1	125	138968-1
AMFW-6S-800840-65	8–8.4	50	1	65	10	1.5:1	125	138968-1
AMFW-7S-800840-50	8–8.4	60	1	50	10	1.5:1	150	138968-1
AMFW-7S-800840-55	8–8.4	60	1	55	10	1.5:1	150	138968-1
AMFW-7S-800840-60	8–8.4	60	1	60	10	1.5:1	150	138968-1
AMFW-7S-800840-65	8–8.4	60	1	65	10	1.5:1	150	138968-1
AMFW-5S-800840-50-UG138	8–8.4	40	0.5	50	10	1.5:1	130	127534-1
AMFW-3F-090100-80	9–10	30	0.75	80	10	1.75:1	125	126133-2
AMFW-3F-096098-120	9.6–9.8	25	0.75	120	10	1.75:1	150	126133-2

ADDITIONAL SPECIFICATIONS

- Operating temperature range -40 to +60°C (unless using an integrated fault alarm or power supply)
- Gain variation vs. temperature (-40 to +60°C) 5 dB maximum
- Output third order intercept (at 23°C) 20 dBm minimum

AVAILABLE SATCOM OPTIONS

- Add suffix B Solder bias pin
- Add suffix C Bias-tee (DC bias applied through the RF output connector)
- Add suffix F Fault alarm circuitry (Form-C contact closure; operation limited to -15°C)
- Add suffix N N-female output connector
- Add suffix NEG -24 VDC bias required
- Add suffix O Integrated power supply (110/220 VAC; operation limited to -15°C; use Outline 138968-2)
- Add suffix P1 15 dBm output power at 1 dB compression (OIP³ = 25 dBm; adds approximately 75 mA of current)
- Add suffix P2 20 dBm output power at 1 dB compression (OIP³ = 30 dBm; adds approximately 150 mA of current)
- Add suffix TC Gain variation vs. temperature at 3 dB peak-to-peak
- Add suffix TRF Bandpass filter (passes 7.25–7.75 GHz; >30 dB rejection at 7 and 7.9 GHz; operation limited to -15°C; use Outline 135805)

LOW-NOISE SATCOM AMPLIFIERS (CONT.)

MODEL NUMBER	OPERATING FREQUENCY (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE TEMP. (dB, Max.)	OUTPUT POWER (dBm, Min.)	VSWR IN/OUT (Max.)	DC POWER @ +15 V (mA, Nom.)	OUTLINE DRAWING
Ku-BAND WAVEGUIDE INPUT								
AMFW-4S-100120-170	10–12	30	1	170	10	1.5:1/2:1	160	126133-1
AMFW-5S-100150-250	10–15	30	1.5	250	15	1.5:1/2:1	250	138966-1
AMFW-5S-107128-65	10.7–12.75	40	1	65	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-107128-70	10.7–12.75	40	1	70	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-107128-80	10.7–12.75	40	1	80	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-107128-85	10.7–12.75	40	1	85	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-107128-100	10.7–12.75	40	1	100	10	1.25:1/1.5:1	130	138966-1
AMFW-6S-107128-65	10.7–12.75	50	1	65	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-107128-70	10.7–12.75	50	1	70	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-107128-80	10.7–12.75	50	1	80	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-107128-85	10.7–12.75	50	1	85	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-107128-100	10.7–12.75	50	1	100	10	1.25:1/1.5:1	160	138966-1
AMFW-7S-107128-65	10.7–12.75	60	1	65	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-107128-70	10.7–12.75	60	1	70	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-107128-80	10.7–12.75	60	1	80	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-107128-85	10.7–12.75	60	1	85	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-107128-100	10.7–12.75	60	1	100	10	1.25:1/1.5:1	190	138966-1
AMFW-6S-107145-130	10.7–14.5	50	1.5	130	10	1.5:1/2:1:1	200	138966-1
AMFW-5S-109117-60	10.95–11.7	40	1	60	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-109117-65	10.95–11.7	40	1	65	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-109117-70	10.95–11.7	40	1	70	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-109117-80	10.95–11.7	40	1	80	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-109117-85	10.95–11.7	40	1	85	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-109117-100	10.95–11.7	40	1	100	10	1.25:1/1.5:1	130	138966-1
AMFW-6S-109117-60	10.95–11.7	50	1	60	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-109117-65	10.95–11.7	50	1	65	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-109117-70	10.95–11.7	50	1	70	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-109117-80	10.95–11.7	50	1	80	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-109117-85	10.95–11.7	50	1	85	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-109117-100	10.95–11.7	50	1	100	10	1.25:1/1.5:1	160	138966-1
AMFW-7S-109117-60	10.95–11.7	60	1	60	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-109117-65	10.95–11.7	60	1	65	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-109117-70	10.95–11.7	60	1	70	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-109117-80	10.95–11.7	60	1	80	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-109117-85	10.95–11.7	60	1	85	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-109117-100	10.95–11.7	60	1	100	10	1.25:1/1.5:1	190	138966-1
AMFW-5S-109122-60	10.95–12.2	40	1	60	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-109122-65	10.95–12.2	40	1	65	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-109122-70	10.95–12.2	40	1	70	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-109122-80	10.95–12.2	40	1	80	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-109122-85	10.95–12.2	40	1	85	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-109122-100	10.95–12.2	40	1	100	10	1.25:1/1.5:1	130	138966-1
AMFW-6S-109122-60	10.95–12.2	50	1	60	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-109122-65	10.95–12.2	50	1	65	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-109122-70	10.95–12.2	50	1	70	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-109122-80	10.95–12.2	50	1	80	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-109122-85	10.95–12.2	50	1	85	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-109122-100	10.95–12.2	50	1	100	10	1.25:1/1.5:1	160	138966-1

LOW-NOISE SATCOM AMPLIFIERS (CONT.)

MODEL NUMBER	OPERATING FREQUENCY (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE TEMP. (dB, Max.)	OUTPUT POWER (dBm, Min.)	VSWR IN/OUT (Max.)	DC POWER @ +15 V (mA, Nom.)	OUTLINE DRAWING
Ku-BAND WAVEGUIDE INPUT (CONT.)								
AMFW-7S-109122-60	10.95–12.2	60	1	60	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-109122-65	10.95–12.2	60	1	65	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-109122-70	10.95–12.2	60	1	70	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-109122-80	10.95–12.2	60	1	80	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-109122-85	10.95–12.2	60	1	85	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-109122-100	10.95–12.2	60	1	100	10	1.25:1/1.5:1	190	138966-1
AMFW-5S-109128-65	10.95–12.75	40	1	65	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-109128-70	10.95–12.75	40	1	70	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-109128-80	10.95–12.75	40	1	80	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-109128-85	10.95–12.75	40	1	85	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-109128-100	10.95–12.75	40	1	100	10	1.25:1/1.5:1	130	138966-1
AMFW-6S-109128-65	10.95–12.75	50	1	65	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-109128-70	10.95–12.75	50	1	70	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-109128-80	10.95–12.75	50	1	80	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-109128-85	10.95–12.75	50	1	85	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-109128-100	10.95–12.75	50	1	100	10	1.25:1/1.5:1	160	138966-1
AMFW-7S-109128-65	10.95–12.75	60	1	65	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-109128-70	10.95–12.75	60	1	70	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-109128-80	10.95–12.75	60	1	80	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-109128-85	10.95–12.75	60	1	85	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-109128-100	10.95–12.75	60	1	100	10	1.25:1/1.5:1	190	138966-1
AMFW-5S-114122-60	11.4–12.2	40	1	60	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-114122-65	11.4–12.2	40	1	65	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-114122-70	11.4–12.2	40	1	70	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-114122-80	11.4–12.2	40	1	80	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-114122-85	11.4–12.2	40	1	85	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-114122-100	11.4–12.2	40	1	100	10	1.25:1/1.5:1	130	138966-1
AMFW-6S-114122-60	11.4–12.2	50	1	60	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-114122-65	11.4–12.2	50	1	65	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-114122-70	11.4–12.2	50	1	70	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-114122-80	11.4–12.2	50	1	80	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-114122-85	11.4–12.2	50	1	85	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-114122-100	11.4–12.2	50	1	100	10	1.25:1/1.5:1	160	138966-1
AMFW-7S-114122-60	11.4–12.2	60	1	60	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-114122-65	11.4–12.2	60	1	65	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-114122-70	11.4–12.2	60	1	70	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-114122-80	11.4–12.2	60	1	80	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-114122-85	11.4–12.2	60	1	85	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-114122-100	11.4–12.2	60	1	100	10	1.25:1/1.5:1	190	138966-1
AMFW-5S-117128-65	11.7–12.75	40	1	65	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-117128-70	11.7–12.75	40	1	70	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-117128-80	11.7–12.75	40	1	80	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-117128-85	11.7–12.75	40	1	85	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-117128-100	11.7–12.75	40	1	100	10	1.25:1/1.5:1	130	138966-1
AMFW-6S-117128-65	11.7–12.75	50	1	65	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-117128-70	11.7–12.75	50	1	70	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-117128-80	11.7–12.75	50	1	80	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-117128-85	11.7–12.75	50	1	85	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-117128-100	11.7–12.75	50	1	100	10	1.25:1/1.5:1	160	138966-1

LOW-NOISE SATCOM AMPLIFIERS (CONT.)

MODEL NUMBER	OPERATING FREQUENCY (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE TEMP. (dB, Max.)	OUTPUT POWER (dBm, Min.)	VSWR IN/OUT (Max.)	DC POWER @ +15 V (mA, Nom.)	OUTLINE DRAWING
Ku-BAND WAVEGUIDE INPUT (CONT.)								
AMFW-7S-117128-65	11.7–12.75	60	1	65	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-117128-70	11.7–12.75	60	1	70	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-117128-80	11.7–12.75	60	1	80	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-117128-85	11.7–12.75	60	1	85	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-117128-100	11.7–12.75	60	1	100	10	1.25:1/1.5:1	190	138966-1
AMFW-5S-122128-65	12.2–12.75	40	1	65	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-122128-70	12.2–12.75	40	1	70	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-122128-80	12.2–12.75	40	1	80	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-122128-85	12.2–12.75	40	1	85	10	1.25:1/1.5:1	130	138966-1
AMFW-5S-122128-100	12.2–12.75	40	1	100	10	1.25:1/1.5:1	130	138966-1
AMFW-6S-122128-65	12.2–12.75	50	1	65	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-122128-70	12.2–12.75	50	1	70	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-122128-80	12.2–12.75	50	1	80	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-122128-85	12.2–12.75	50	1	85	10	1.25:1/1.5:1	160	138966-1
AMFW-6S-122128-100	12.2–12.75	50	1	100	10	1.25:1/1.5:1	160	138966-1
AMFW-7S-122128-65	12.2–12.75	60	1	65	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-122128-70	12.2–12.75	60	1	70	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-122128-80	12.2–12.75	60	1	80	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-122128-85	12.2–12.75	60	1	85	10	1.25:1/1.5:1	190	138966-1
AMFW-7S-122128-100	12.2–12.75	60	1	100	10	1.25:1/1.5:1	190	138966-1
AMFW-4S-136139-70	13.6–13.9	30	0.5	70	10	1.3:1/1.8:1	200	138966-1
AMFW-4F-145155-130	14.5–15.5	30	1	130	10	1.5:1	200	127539-1

ADDITIONAL SPECIFICATIONS

- Operating temperature range -40 to +60°C (unless using an integrated fault alarm or power supply)
- Gain variation vs. temperature (-40 to +60°C) 5 dB maximum
- Output third order intercept (at 23°C) 20 dBm minimum

AVAILABLE SATCOM OPTIONS

- Add suffix B Solder bias pin
- Add suffix C Bias-tee (DC bias applied through the RF output connector)
- Add suffix F Fault alarm circuitry (Form-C contact closure; operation limited to -15°C)
- Add suffix N N-female output connector
- Add suffix NEG -24 VDC bias required
- Add suffix O Integrated power supply (110/220 VAC; operation limited to -15°C; use Outline 138966-2)
- Add suffix P1 15 dBm output power at 1 dB compression (OIP³ = 25 dBm; adds approximately 75 mA of current)
- Add suffix P2 20 dBm output power at 1 dB compression (OIP³ = 30 dBm; adds approximately 150 mA of current)
- Add suffix TC Gain variation vs. temperature at 3 dB peak-to-peak
- Add suffix TRF Lowpass filter (with >20 dB rejection at 13.5 GHz; operation limited to -15°C)