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# **AMCOM Communications, Inc.**

## **Product Selection Guide**

### **December 16, 2008**

**ISO 9001:2000 Registered**  
**Registration # 220501.1Q**

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# Ultra Broadband

## APPLICATIONS:

- Broadband Radio
- Jammer Radar
- Instrumentation
- WiMAX

**MMIC Power Amplifier**  
(up to 10 Watts)

**Discrete GaAs power FET**  
(8V, 14V, 28V, 10W)

**PA Module**  
(up to 500 Watts)

MMIC PA	Ultra Broadband MMIC	WLL WiMAX	WiMAX GPS
Model #	AM003536WM-BM	AM244236WM-BM	AM142540MM-BM
Frequency	10 – 3500 MHz	2.4 – 4.2 GHz	1.4 – 2.5 GHz
Output power (P3dB)	4 watts (36dBm)	4 watts (36 dBm)	10 watts (40 dBm)
Efficiency	24%	30%	35%
Small signal gain	22dB	31dB	25 dB
DC supply	+20V x 0.7A, -1V x 0.01A	+8V x 1.5A -0.76V x 0.01A	+14V x 1.5A -0.86V x 0.01A
Package	Ceramic package	Ceramic package	Ceramic package
Size	0.27" x 0.27" x 0.11"	0.27" x 0.27" x 0.11"	0.27" x 0.27" x 0.11"
Approx. Weight	0.35 gram	0.35 gram	0.35 gram



*Strong customer support*

**NEW!**



PA Module	Ultra Broadband 4 W	Ultra Broadband 10 W	Broadband 125W
Model #	AM003536SF-2H	AM003040SF-2H	AM000551SF-2H
Frequency	10 – 3500 MHz	10 – 3000 MHz	30 – 500 MHz
Output power (P3dB)	4 watts (36dBm)	17 watts (42.5dBm)	125 watts
Small signal gain	22dB	22dB	20dB
Efficiency	24%	22%	30%
DC supply	+22V x 0.8A	+24V x 2.9A	+28V x 14.9A
Package	Metal housing with connectors	Metal housing with connectors	Metal housing with connectors
Size (L x W x H)	2.8" x 2" x 0.66"	6" x 4" x 0.66"	8.0" x 3.5" x 0.91"
Approx. Weight	3.2 Oz (90 gram)	1 lb 4 Oz (500 gram)	Approx 2 lb (900gm)

ISO9001-2000 certified.

**AMCOM** is specialized in ultra-broadband, high-efficiency, and small-size power amplifier (PA). The PA is unique for applications such as Broadband radio, Jammer, Radar, Instrumentation, and WiMAX. Some examples of the PA are Ultra Broadb, High-performance MMIC Power Amplifier (Up to 10watts); and connectorized PA Module (Up to 500 watts). A partial list of products is shown above.



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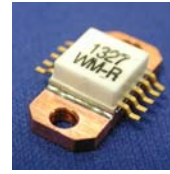


### Discrete FET Summary

Model	Test freq	CU Package			QG Package		
		Gss	P1dB	IP3	Effi	Vd	Id
<b>QG Series FET</b>							
AM006MX-QG-R	3.5GHz	13dB	22dBm	34dBm	42%	5V	60mA
AM012MX-QG-R	3.5GHz	13dB	25dBm	37dBm	42%	5V	120mA
AM024MX-QG-R	3.5GHz	13dB	28dBm	39dBm	42%	5V	240mA
AM036MX-QG-R	3.5GHz	12dB	29.5dBm	42dBm	42%	5V	360mA
AM048MX-QG-R	3.5GHz	11dB	31dBm	43dBm	42%	5V	480mA
AM072MX-QG-R	3.5GHz	11dB	32.5dBm	44dBm	42%	5V	720mA
<b>QF Series FET</b>							
AM006MX-QF-R	3.5GHz	13dB	23.5dBm	35dBm	42%	7V	60mA
AM012MX-QF-R	3.5GHz	13dB	26.5dBm	37dBm	42%	7V	120mA
AM024MX-QF-R	3.5GHz	13dB	29.5dBm	40dBm	42%	7V	240mA
AM036MX-QF-R	3.5GHz	12dB	31dBm	42dBm	42%	7V	360mA
AM048MX-QF-R	3.5GHz	11dB	32.5dBm	44dBm	42%	7V	480mA
AM072MX-QF-R	3.5GHz	11dB	34dBm	44dBm	42%	7V	720mA
<b>Cu Series FET</b>							
AM072MX-CU-R	3.5GHz	11dB	34dBm	46dBm	40%	7V	720mA
AM100MX-CU-R	4.1GHz	10dB	35dBm	48dBm	37%	7V	1000mA
AM150MX-CU-R	3.5GHz	10dB	36.5dBm	50d bm	37%	7V	1500mA
AM200MX-CU-R	3.5GHz	10dB	38dBm	48Bm	35%	7V	2000mA
AM300MX-CU-R	2.9GHz	9dB	39.5dBm	52dBm	30%	7V	3000mA
<b>HIFET</b>							
AM005MH2-BI-R	3.5GHz	15dB	25dBm	40dBm	40%	14V	50mA
AM010MH2-BI-R	3.5GHz	15dB	28dBm	43dBm	40%	14V	100mA
AM020MH2-BI-R	3.5GHz	15dB	31dBm	46dBm	40%	14V	200mA
AM120MH2-BI-R	3.5GHz	15dB	39dBm	50dBm	30%	14V	1200mA
AM010MH4-BI-R	2.0GHz	19dB	31dBm	46dBm	35%	28V	100mA
AM032MH4-BI-R	2.0GHz	19dB	36dBm	49dBm	35%	28V	320mA
<b>SOT-89 Series</b>							
AM048MX-89	3.5GHz	9dB	31dBm	43dBm	42%	5V	480mA
AM048MX-89-R	3.5GHz	9dB	31dBm	43dBm	42%	5V	480mA



BM



FM

## MMIC Summary

Model	Frequency	Gss	P1dB	IP3	Effi	Vd	Vg
AM002535WM-BM(FM)-R	20MHz-2.5GHz	23dB	33dBm	45dBm	20%	20V	-1
AM003536WM-BM(FM)-R	10MHz-3.5GHz	23dB	35dBm	48dBm	20%	20V	-1
AM012020WM-BM-R	100-2000MHz	30dB	16dBm	NF=2dB	--	8V	- 1.2
AM012535MM-BM(FM)-R	30MHz-2.5GHz	23dB	33dBm	45dBm	20%	20V	-2.8
AM103026MM-BM-R	0.9-3.2GHz	22dB	25dBm	43dBm	10%	14V	-2
AM132740MM-BM(FM)-R	1.3-2.7GHz	26dB	38dBm	51dBm	30%	14V	-0.6
AM142540MM-BM(FM)-R	1.4-1.8GHz	25dB	39dBm	50dBm	35%	14V	-0.86
AM153040WM-BM(FM)-R	1.4-3.4GHz	18dB	37dBm	43dBm	30%	12V	-0.9
AM183031WM-BM-R	1.6-3.3GHz	31dB	31dBm	40dBm	25%	8V	-1
AM203033MM-BM-R	2.2-3.6GHz	35dB	32dBm	41dBm	24%	8V	-1
AM204437WM-BM(FM)-R	2.0-4.4GHz	30dB	37dBm	NA	25%	8V	-0.76
AM244236WM-BM(FM)-R	2.4-4.2GHz	31dB	36dBm	NA	30%	8V	-0.76
AM284233MM-BM-R	2.8-4.2GHz	34dB	33dBm	40dBm	25%	8V	-0.7
AM304031WM-BM-R	2.6-4.6GHz	31dB	32dBm	39dBm	25%	8V	-0.7
AM324036WM-BM(FM)-R	3.0-4.2GHz	29dB	36dBm	45dBm	25%	8V	-0.7

[Note 1]: Size of BM package: 0.7 x 0.7 x 0.1 inch

[Note 2]: See data sheet at [www.amcomusa.com](http://www.amcomusa.com) for detailed information.





## Module Summary

Model	Frequency	Gss	P1dB	IP3	Effi	Vd	Vg	Size (Inch)
AM000551SF-2H	30-500MHz	26dB	125W		30%	28V	None	8.8x1.5x0.91
AM003040SF-2H	10-3000MHz	22dB	10W	50dBm	22%	24V	None	6.0x4.0x0.66
AM003536SF-2H	10-3500MHz	22dB	4W	49dBm	20%	24V	None	2.8x2.0x0.56
AM020331SF-2D	100-350MHz	25dB	2W	NA	30%	7V	-5	1.3x0.47x0.17
AM020336SF-4H	175-325MHz	60dB	4W	46dBm	27%	8V	None	3.15x2.15x0.49
AM020340SF-3H	170-320MHz	35dB	14W	NA	25%	28V	None	8.13x3.6x1.25
AM042644SF-3H	300-2600MHz	35dB	20W	50dBm	33%	28V	None	4.72x2.56x0.98
AM053231SF-3H	500-3500MHz	20dB	1.6W	NA	10%	15V	-5	4.0x3.0x0.75
AM080947SF-2H	860-900MHz	25dB	50W	57dBm	30%	10V	-5	14.1x7.85x1.45
AM091047SF-2H	935-960MHz	24dB	40W	57dBm	30%	10V	-5	14.1x7.85x1.45
AM091247SF-2H	900-1300MHz	20dB	30W	NA	25%	31V, 7V	-5	8.63x3.0x1.12
AM091251SF-1H	900-1300MHz	10dB	100W*	NA	30%	31V	None	8.8x3.5x0.91
AM091253SF-2H	950-1250MHz	20dB	200W*	NA	25%	31V	None	14.76x6x1.12
AM091257SF-6H	950-1250MHz	70dB	500W*	NA	NA	208V AC	None	See data Sheet
AM094233SF-3H	900-4200MHz	19dB	1.6W	NA	10%	15V	-5	4.0x3.0x0.75
AM131535SF-2H	1350-1517MHz	30dB	3W	47dBm	12%	16.5V	-15	6.0x1.3x0.67
AM141940SF-2H	1400-1800MHz	25dB	5.5W	50dBm	20%	16V	None	2.8x2.0x0.56
AM183031SF-3H	1800-3400MHz	31dB	1.25W	38dBm	12%	12V	None	2.8x2.0x0.56
AM204437SF-3H	2000-4400MHz	30dB	4W	44dBm	15%	12V	None	2.8x2.0x0.56
AM232537SF-2H T/R Module	2100-2600MHz	TX:22dB RX:16dB NF:1.5dB	5W	N/A	20%	14V	None	2.8x3.0x0.56
AM243638SF-4H	2400-3600MHz	37dB	6.3W	45dBm	14%	13V	None	4.0x2.5x0.56
AM273545SF-6H	2500-4000MHz	50dB	30W	53dBm	19%	12V	None	8x4.75x1.0
AM304031SF-3H	2600-4600MHz	29dB	1.25W	37dBm	12%	12V	None	2.8x2.0x0.56
AM304233SF-2H	3000-4200MHz	16dB	2W	43dBm	24%	7V	-2	2.1x1.11x0.59

AM324036SF-3H	3000-4200MHz	29dB	4W	43dBm	19%	12V	None	2.8x2.0x0.56
AM343635SF-2H	3400-3600MHz	18dB	4W	45dBm	27%	7V	-2	2.8x1.5x0.61
AM404233SF-2H	4000-4200MHz	16dB	2W	45dBm	31%	7V	-2	2.6x1.5x0.54
Repeater T/R	800-1900MHz, PCS/AMPS. See Data sheet at <a href="http://www.amcomusa.com">www.amcomusa.com</a>							

\* Saturated output power

\*\*For detailed performance, see data sheet at [www.amcomusa.com](http://www.amcomusa.com)

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