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AMCOM Communications, Inc. Product Selection Guide December 16, 2008

**ISO 9001:2000 Registered
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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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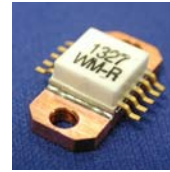


Discrete FET Summary

Model	Test freq	Gss	CU Package		QG Package		Vd	Id
			P1dB	IP3	Effi			
QG Series FET								
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	
QF Series FET								
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	
Cu Series FET								
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	50dBm	37%	7V	1500mA	
AM200MX-CU-R	3.5GHz	10dB	38dBm	48dBm	35%	7V	2000mA	
AM300MX-CU-R	2.9GHz	9dB	39.5dBm	52dBm	30%	7V	3000mA	
HIFET								
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	
SOT-89 Series								
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 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 www.amcomusa.com							

* Saturated output power

**For detailed performance, see data sheet at www.amcomusa.com