

High Linearity Amplifier

ZX60-2411BM

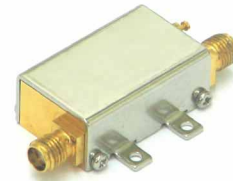
50Ω, 800 MHz to 2400 MHz

Features

- High linearity
- High IP3, +46 dBm typ
- Reverse voltage connection protected
- 4.5V - 5.5V operation
- Small size
- Low cost
- Protected by US Patent 6,790,049

Applications

- High linearity drivers
- Buffer amplifier
- Transmit side gain stage
- General purpose small signal
- Lab, Instrumentation
- Test Equipment



CASE STYLE: GA955

Connectors	Model	Price	Qty.
SMA	ZX60-2411BM-S	\$119.95 ea.	(1-9)

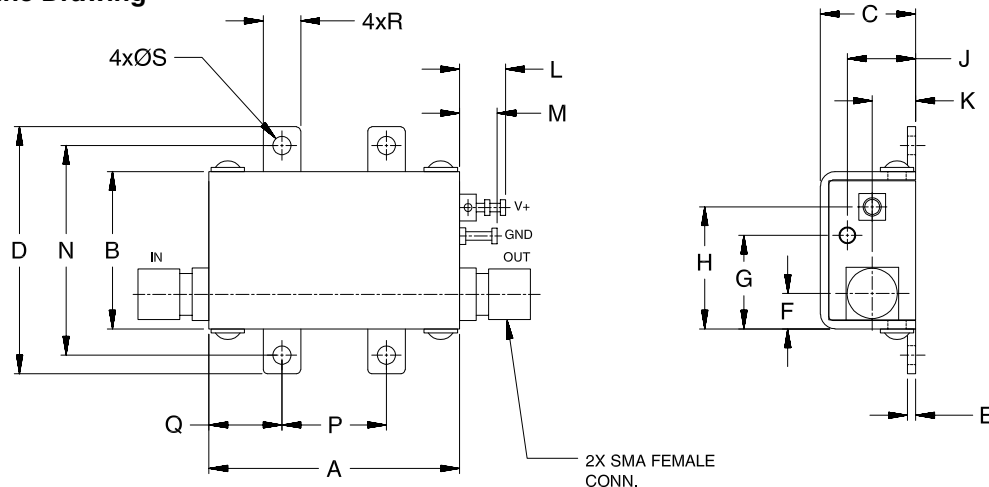
Electrical Specifications at $T_{AMB} = 25^{\circ}\text{C}$

MODEL NO.	FREQ. (MHz)	GAIN (dB)				MAXIMUM POWER (dBm)	DYNAMIC RANGE		VSWR (:1) Typ.		ACTIVE DIRECTIVITY (dB) Isoltion-Gain	DC VOLTAGE @PIN V+ (V)	DC OPERATING CURRENT @ PIN V+ (mA)	
		Flatness					NF (dB)	IP3 (dBm)					Typ.	Max.
		Typ.	Min.	Typ.	Max.				Typ.	Typ.				
ZX60-2411BM	800-1300	11.50	9.00	±0.7	±1.2	22.00	4.50	43.50	1.40	1.15	10.50	5	280	360
	1300-1900	11.50	10.00	±0.4	±0.7	24.00	3.50	46.50	1.20	1.15	9.00	5	280	360
	1900-2400	11.00	9.00	±0.7	±1.5	24.00	3.00	46.00	1.55	1.65	10.50	5	280	360

Maximum Ratings

Operating Temperature	-40°C to 80°C case
	-40°C to 50°C ambient at 5V
Storage Temperature	-55°C to 100°C
DC Voltage	6V
Input Power(no Damage)	+14dBm@800-1300MHz
	+15dBm@1300-1900MHz
	+16dBm@1900-2400MHz

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	wt.
1.20	.75	.46	1.18	.04	.17	.45	.59	.33	.21	.22	.18	1.00	.50	.35	.18	.09	grams
30.5	19.1	11.6	30.0	1.0	4.3	11.4	14.9	8.3	5.3	5.6	4.6	25.4	12.7	8.9	4.6	2.3	35.0



INTERNET <http://www.minicircuits.com>

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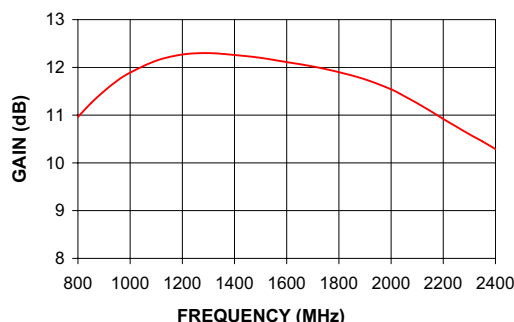
Mini-Circuits ISO 9001 & ISO 14001 Certified

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M101472
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ZX60-2411BM
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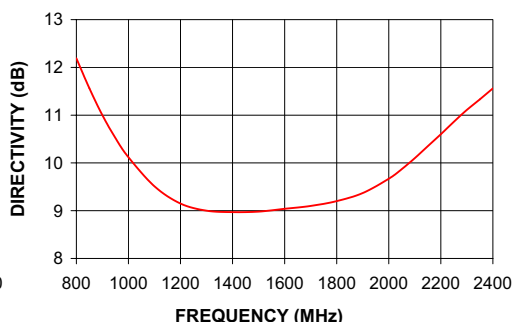
Typical Performance Data & Curves at 25°C ZX60-2411BM

FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR IN (:1)	VSWR OUT (:1)	POWER OUT @ 1dB COMPRESSION (dBm)	IP3 (dBm)	NF (dB)
800	10.96	12.19	1.88	1.24	21.96	43.77	4.69
850	11.25	11.56	1.72	1.24	22.36	45.06	4.45
900	11.50	11.00	1.58	1.23	22.63	44.85	4.30
950	11.72	10.52	1.47	1.21	22.96	45.91	3.96
1000	11.89	10.12	1.37	1.20	23.31	45.61	3.74
1100	12.14	9.51	1.23	1.15	23.96	46.49	3.46
1200	12.27	9.15	1.17	1.11	24.34	47.17	3.23
1300	12.30	9.00	1.18	1.08	24.53	47.37	3.06
1400	12.26	8.97	1.20	1.10	24.63	47.76	3.03
1500	12.20	8.98	1.22	1.13	24.62	47.87	2.99
1600	12.11	9.04	1.20	1.14	24.53	48.53	2.95
1700	12.02	9.10	1.15	1.13	24.41	49.04	2.94
1800	11.90	9.20	1.09	1.16	24.34	48.05	3.16
1900	11.75	9.37	1.16	1.27	24.32	46.99	2.97
2000	11.54	9.67	1.33	1.43	24.35	46.72	3.02
2050	11.40	9.87	1.43	1.53	24.29	46.79	3.06
2100	11.25	10.10	1.53	1.62	24.26	46.54	3.05
2150	11.09	10.35	1.62	1.70	24.23	46.89	3.09
2200	10.92	10.60	1.71	1.77	24.21	46.80	3.09
2250	10.76	10.86	1.77	1.82	24.15	47.49	3.14
2300	10.60	11.11	1.80	1.84	24.04	47.86	3.16
2350	10.45	11.33	1.80	1.84	23.88	48.20	3.18
2400	10.29	11.56	1.77	1.82	23.66	47.65	3.19

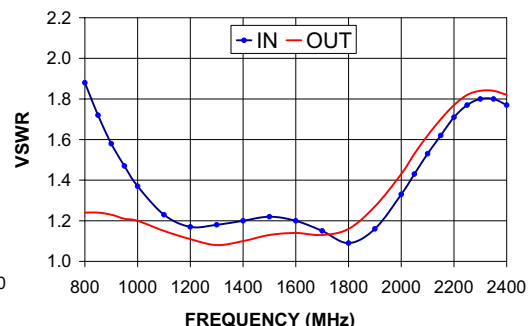
**ZX60-2411BM
GAIN**



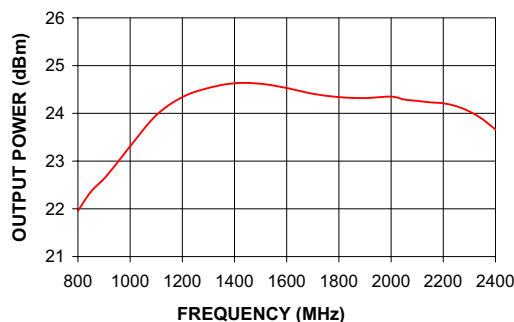
**ZX60-2411BM
DIRECTIVITY**



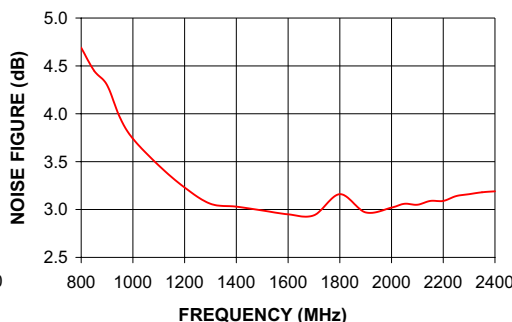
**ZX60-2411BM
VSWR**



**ZX60-2411BM
OUTPUT POWER AT 1dB COMPRESSION**



**ZX60-2411BM
NOISE FIGURE**



**ZX60-2411BM
IP3**

