Engineering Development Model

Coaxial Amplifer ZX60-ED16053/1

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability.
At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.

Please click "Back", and then click "Contact Us" for Applications support.

CASE STYLE : 99-01-1803

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C					
Parameter		**Min.**	**Typ.**	**Max.**	**Units**
Frequency		410		450	MHz
Gain			22		dB
Output Power @ 1dB Compression			26		dBm
Noise Figure			0.9		dB
IP3			39		dBm
VSWR	IN		1.10		(:1)
	OUT		1.10		(:1)
DC Power	Voltage		25		V
	Current			220	mA

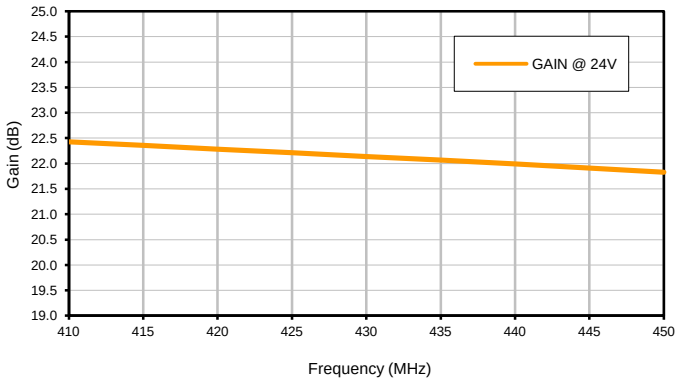
MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Input Power	+10dBm

Typical Performance Data

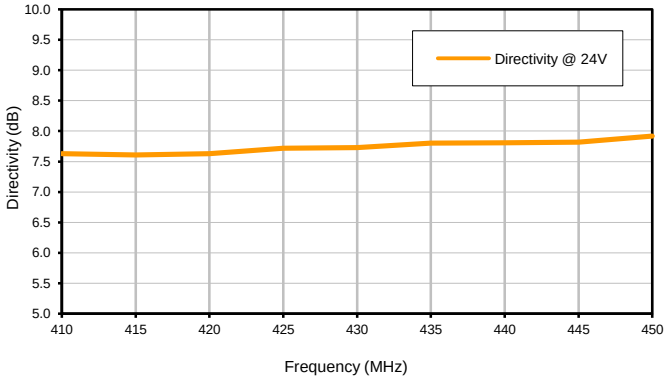
FREQUENCY (MHz)	GAIN (dB) 24V	DIRECTIVITY (dB) 24V	VSWR IN (:1) 24V	VSWR OUT (:1) 24V	NOISE FIGURE (dB) 24V	Pout at 1dB Comp. (dBm) 24V	Output IP3 (dBm) 24V
410.0	22.43	7.63	1.06	1.04	0.89	26.26	39.11
415.0	22.36	7.61	1.07	1.05	0.89	26.24	38.96
420.0	22.28	7.63	1.09	1.06	0.85	26.27	38.80
425.0	22.21	7.72	1.10	1.08	0.88	26.19	39.11
430.0	22.14	7.73	1.11	1.09	0.89	25.99	39.41
435.0	22.07	7.80	1.12	1.10	0.86	25.95	39.33
440.0	21.99	7.81	1.13	1.11	0.91	25.87	39.25
445.0	21.91	7.82	1.14	1.11	0.90	25.77	39.35
450.0	21.83	7.92	1.14	1.12	0.91	25.73	39.44

Typical Performance Curves

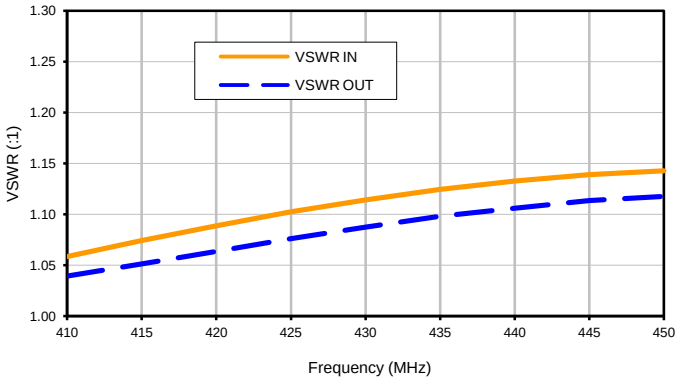
Gain



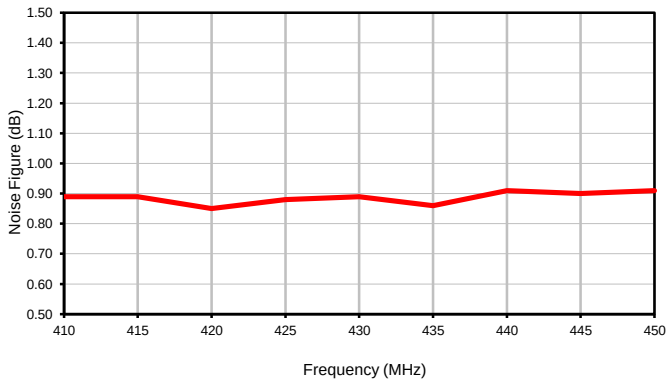
Directivity



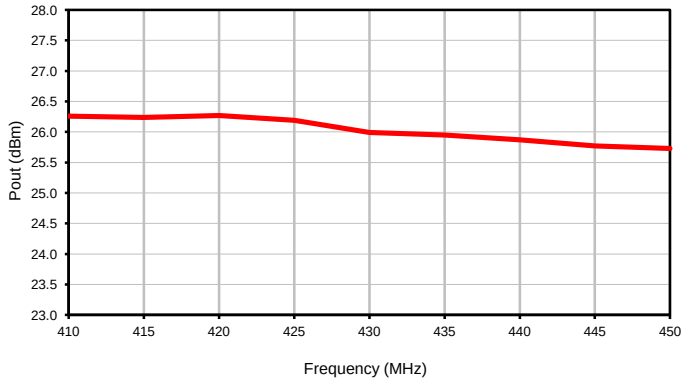
VSWR @ 24V



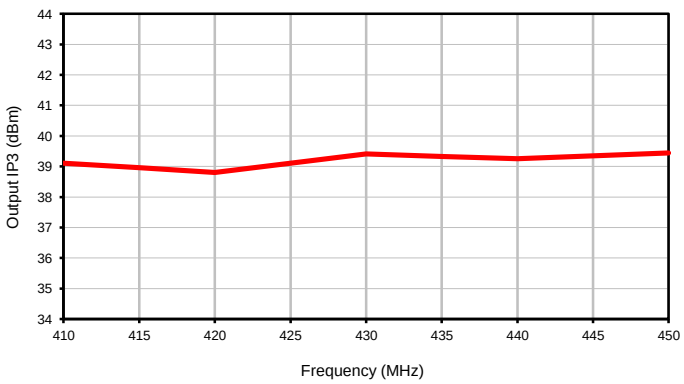
Noise Figure @ 24V



Pout at 1dB Compression @ 24V



Output IP3 @ 24V



Mini-Circuits

Environmental Specifications ENV23T10

All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-40° to 85° C Case Temperature	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Stabilization Bake	(non-operating) 125°C, 24 hours	- - -
Burn-in at Elevated Temp.	(DC on) 160 hours at 85° C	MIL-STD-202, Method 108
Thermal Shock	-55° to 100°C, 5 cycles	MIL-STD-202, Method 107, Condition A, except 100°C