

Traveling-Wave Tubes

Technical Information

RF PERFORMANCE

Tube Type	Frequency Range (Gc)	Maximum Noise Figure (db)	Minimum SS Gain * (db)	Minimum Saturation Power Output * (mw)	Data Group
ZM-3441	7.0 - 8.5	11	37	50	1
ZM-3197	7.0 - 11.0	13	37	30	1
ZM-3186	7.0 - 11.0	18	37	30	2
ZM-3326	7.0 - 12.0	15	37	30	1
ZM-3199	7.0 - 12.0	20	37	30	2
ZM-3209	8.0 - 12.0	13	33	30	1
ZM-3198	8.0 - 12.0	18	33	30	2
ZM-3442	8.5 - 9.6	11	37	50	1

- LOW NOISE
- X-BAND
- PPM FOCUSING

FEATURES

low noise
broad bandwidth
periodic permanent magnet focusing
metal-ceramic construction
military environments
light weight
crystal mixer protection

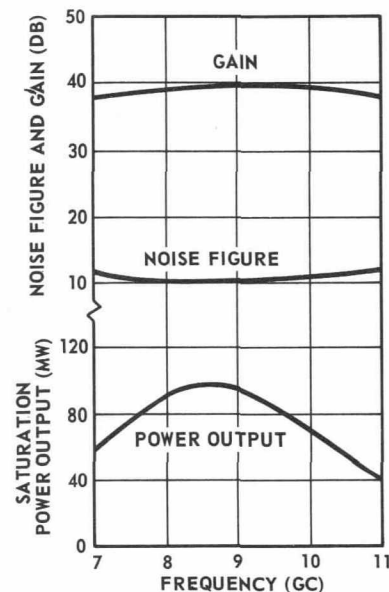
APPLICATIONS

radar
ecm
instrumentation
communications
radiometry

MECHANICAL & MISCELLANEOUS

Data Group	1	2
VSWR, max		
Input.....	2.5	2.5
Output.....	2.5	2.5
Mounting Position	Any	Any
Weight, lb.....	4.5	4.0
Overall Length, in....	14.6	14.6
Cooling.....	Conv.	Conv.
RF Connectors.....	Type N	Type N
DC Connector.....	Winch'r M12P or equiv.	Winch'r M12P or equiv.
Collector Connector	--	--

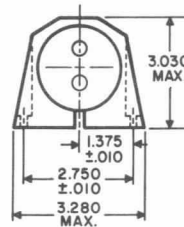
TYPICAL CHARACTERISTICS



ENVIRONMENTAL

Shock..... 30G, 11 ms,
(energized) 3 axes
Vibration..... 15G, 55 to
(operating) 2000 cps
Temp, Ambient . . -65 C to
(operating) +100 C
Acoustic Noise 150 db, 25 to
(operating) 12,000 cps
Altitude..... 100,000 ft.
(operating)

M12P CONNECTIONS	
TUBE ELEMENT	PIN
HEATER	H
CATHODE-HEATER	F
CATHODE	J
ELECTRODE 1	B
ELECTRODE 2	E
ELECTRODE 3	K
ELECTRODE 4	N
COLLECTOR	C
HELIX	L
CAPSULE GND.	D



These data are subject to change without notice.

GENERAL  ELECTRIC
Owensboro, Kentucky