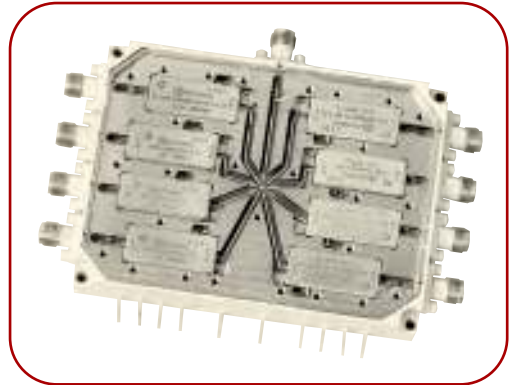


AMPLIFIER/SWITCH ASSEMBLY

MODEL: 126140

FEATURES

- Military application
- Broadband RF coverage 0.475–18.5 GHz
- RF gain 23 dB nominal
- Channel-to-channel isolation 45 dB minimum
- Input/output VSWR..... 1.5:1 typical, 1.8:1 maximum
- Noise figure 3.5 dB typical, 4.5 dB maximum
- Low power 325 mA (5 V) typical
- Lightweight 520 grams typical



Band	Frequency Range (GHz)	Gain (dB, Min.)	Gain (dB, Max.)	Noise Figure (dB, Max.)	Flatness (±dB)	1 dB Comp. (dB, Min.)	IP ₃ (+dB, Min.)	IP ₂ (+dB, Min.)	CW RF (+dBm, Max.)	Pulse RF (+dBm, Max.)
1	0.475–1.050	18	22	2	1	11	21	30	32	57
2	0.950–2.100	18	22	2.2	1	11	21	30	32	57
3	1.950–3.800	20	24	2	1.25	8	18	27	32	57
4	3.100–6.100	22	26	2.6	1.25	8	18	27	31	56
5	5.400–10.400	24	30	2.7	1.5	7	16.5	25	31	56
6	9.600–18.500	28	32	4.8	2.25	6	15	23	30	55
7	2.000–18.500	20	26	4.5	2	9	19	22	10	N/A
8	2.000–18.500	25	32	4.5	2	9	19	22	10	N/A

ELECTRICAL SPECIFICATIONS

PARAMETERS	LIMITS	CONDITIONS
VSWR	2.1:1 maximum	
Stability	Unconditional	Source impedance is BPF with passband VSWR < 2:1
On/Off isolation	30 dB minimum	
Switching speed	200 μs maximum	
Video feedthru	-75 dBm maximum from 1 kHz to 4 GHz	PRF = 1 kHz
Control	TTL	
Control logic	"1" = Channel On, "0" = Channel Off	No input = "0"
Blanking	All "0" = Blanking	
DC bias	12 V @ 650 mA maximum, -12 V @ 250 mA maximum	

ENVIRONMENTAL CONDITIONS

- Weight 200 grams
- Operating/storage temperature -54 to +71°C
- Vibration Sinusoidal 5 Gs RMS, 52–500 Hz

GENERAL NOTES:

1. Dimensions shown in brackets [] are in millimeters.
2. Tolerance as follows: .xx = ±0.01 [xx = ±0.25], .xxx = ±0.005 [xxx = ±0.13]

OUTLINE DRAWING

