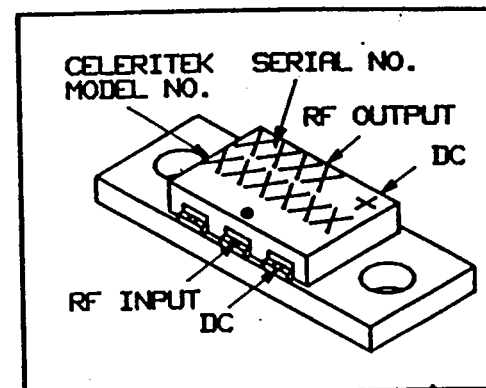


CELERITEK**240 SERIES - Gain Blocks****FEATURES**

- Cascadable Gain Blocks
- 0.240 inch Case Length
- Drop-in connectorless Design
- Copper Tungsten Flange for Heat Transfer
- Hermetically Sealed

The 240 series of gain blocks are multistage hybrid amplifiers which can be cascaded to give higher values of gain.

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Data Sheet - Jan 88

**ELECTRICAL SPECIFICATIONS +25°C**

MODEL	FREQUENCY RESPONSE (GHz)	GAIN (dB)		GAIN FLATNESS (±dB)		* NOISE FIGURE (dB)		* POWER 1 dB GAIN COMP. (dBm)		POWER SATURATED (dBm) TYP	CURRENT AT +8V (mA) TYP
		MIN	TYP	MAX	TYP	MAX	TYP	MIN	TYP		
240-4-0501	.5-4	10.0	11.0	0.5	0.4	4.0	3.5	14.0	16.0	17.0	65
240-4-0502	.5-4	20.0	22.0	0.5	0.4	4.0	3.5	14.0	16.0	17.0	125
240-8-2001	2-8	10.0	12.0	0.5	0.4	5.0	4.5	13.0	15.0	17.0	60
240-8-2002	2-8	9.0	11.0	0.5	0.4	6.5	5.5	19.0	20.0	22.0	80
240-10-1001	1-10	15.0	17.0	0.5	0.4	6.5	5.5	12.0	14.0	15.0	60
240-16-4001	4-16	5.0	5.5	0.5	0.4	7.0	6.5	20.0	21.0	23.0	160
240-18-6001	6-18	5.5	6.5	0.5	0.4	6.0	5.0	14.0	16.0	18.0	60
240-18-6002	6-18	7.0	8.0	0.5	0.4	5.5	4.5	12.0	14.0	17.0	60
240-18-6003	6-18	5.5	6.5	0.5	0.4	6.5	5.5	18.0	19.0	21.0	80
240-18-6004	6-18	5.0	5.5	0.5	0.4	7.5	6.5	20.0	21.0	23.0	160

ELECTRICAL SPECIFICATIONS -55°C TO +90°C

MODEL	FREQUENCY RESPONSE (GHz)	GAIN (dB)		GAIN FLATNESS (±dB)		* NOISE FIGURE (dB)		* POWER 1 dB GAIN COMP. (dBm)		POWER SATURATED (dBm) TYP	CURRENT AT +8V (mA) TYP
		MIN	TYP	MAX	TYP	MAX	TYP	MIN	TYP		
240-4-0501	.5-4	9.5	10.5	0.7	0.6	4.8	4.3	13.0	15.0	16.0	70
240-4-0502	.5-4	19.0	21.0	0.7	0.6	4.8	4.3	13.0	15.0	16.0	130
240-8-2001	2-8	9.3	11.3	0.7	0.6	5.8	5.3	12.0	14.0	16.0	65
240-8-2002	2-8	8.3	10.3	0.7	0.6	7.3	6.3	18.0	19.0	21.0	85
240-10-1001	1-10	14.3	16.3	0.7	0.6	7.3	6.3	11.0	13.0	14.0	65
240-16-4001	4-16	4.3	4.8	0.7	0.6	7.8	7.3	19.0	20.0	22.0	165
240-18-6001	6-18	4.8	5.8	0.7	0.6	6.8	5.8	13.0	15.0	17.0	65
240-18-6002	6-18	6.3	7.3	0.7	0.6	6.3	5.3	11.0	13.0	16.0	65
240-18-6003	6-18	4.8	5.8	0.7	0.6	7.3	6.3	17.0	18.0	20.0	85
240-18-6004	6-18	4.3	4.8	0.7	0.6	8.8	7.3	19.0	20.0	22.0	165

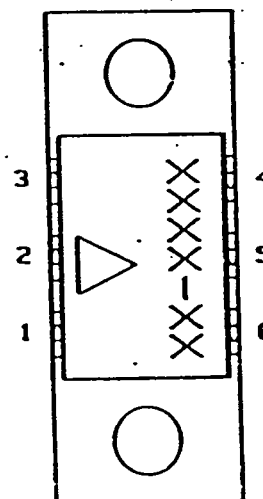
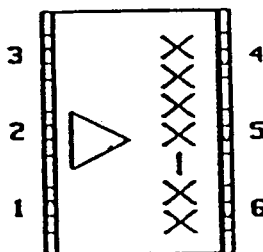
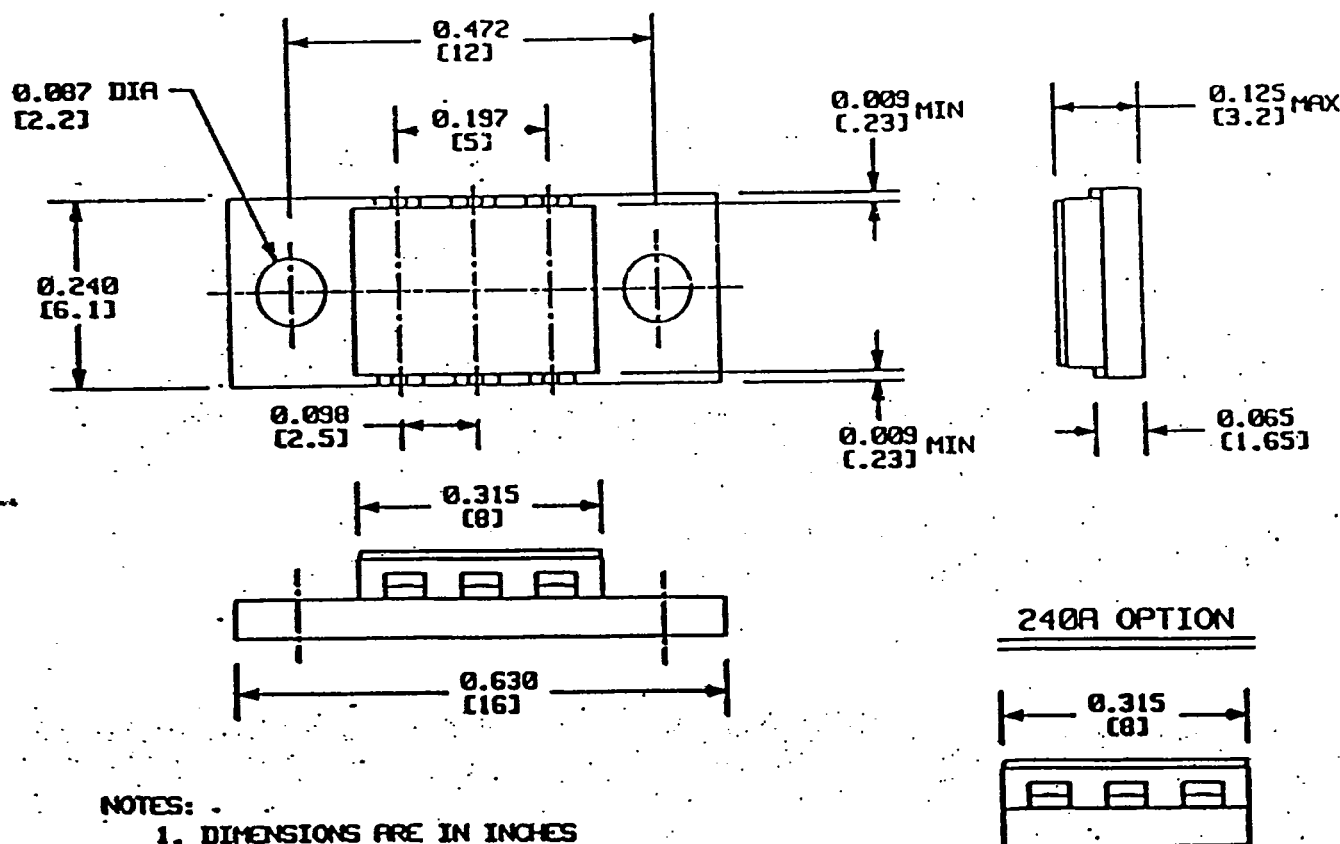
* HIGHER POWER AND LOWER NOISE FIGURES AVAILABLE ON REQUEST

240 CASE ASSEMBLY/TESTING INSTRUCTIONS

1. Use 1 x 10 mil gold ribbon to interconnect the cases to each other or to the outside world. A gap welder or heated wedge can be used to make the interconnection.
2. Use a regulated power supply when testing the units. DC bias should not exceed 10 volts. Over voltage and reverse bias protection is not included.
3. RF input power should not exceed +20 dBm.

CONNECTION DIAGRAM.

- 1: B+
 2: RF in
 3: NC
 4: NC
 5: RF out
 6: B+
 GND: (CASE FLANGE)

240 CASE DIMENSIONS

NOTES:

1. DIMENSIONS ARE IN INCHES (MILLIMETERS).
2. TOLERANCES: .XXX ± .005