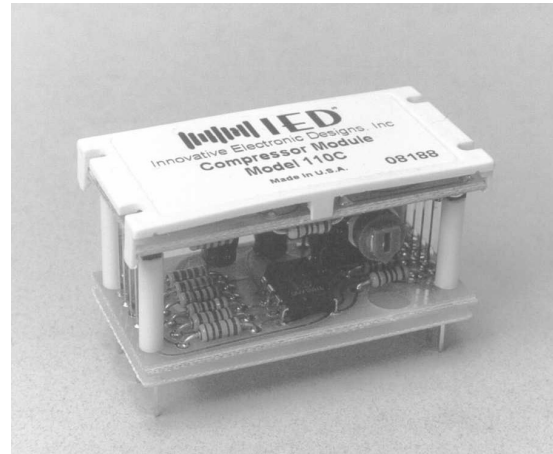


IED MODEL 110C

COMPRESSOR MODULE

The 110C compressor module is designed to provide compression for voice audio channels on many IED audio circuit cards. It is used for this purpose on every IED microphone station in the IED 500ACS Announcement Control System and the IED 8000 Series Totally Integrated Processing System. It is designed with a fixed compression ratio of 6:1. It is a reliable, smooth, natural sounding compressor. Frequency response is flat, and the noise level is extremely low. Distortion is less than 0.03%. Power drain is less than 1 watt.



FEATURES

- Superior Audio Performance
- Extremely Compact
- Budget Priced
- High Reliability
- Advanced Design
- Very Low Power Drain
- Low Noise

APPLICATIONS

The IED Model 110C Compressor was designed for use in almost any compressor application, but it has its greatest advantage where size, power drain, or cost are important. For example, these characteristics would make it ideally suited for use in paging applications. Its low power drain and weight make it well suited even for portable applications. Its family relationship with the other IED modules in terms of size, power supply, and pin arrangement make it even more attractive, providing easily interchangeable alternatives.

SPECIFICATIONS:

ELECTRICAL at +15 V, -15 V, 25C (77F)

Gain	20 dB, ±0.5 dB
Frequency Response	±0.35 dB
20 Hz - 20 kHz, +4 dBu	
Maximum Input Level	+21 dBu
Maximum Output Level	+21 dBu
$R_L \geq 2 \text{ k}\Omega$	

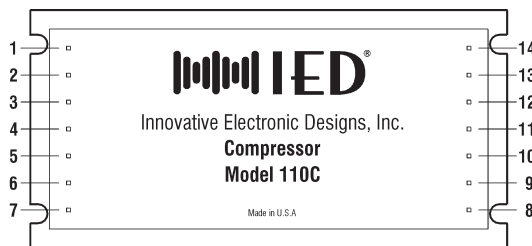


Total Harmonic Distortion, THD <0.03%
 +4 dBu, 2 kHz - 20 kHz,
 10 Hz - 80 kHz filters
 Intermodulation Distortion, IM < 2%
 -2.5 dBu, 60 Hz + 7 kHz
 Noise Referred to the Input, NRI -86 dB
 22 Hz - 22 kHz filters
 Compression Threshold -22.5 dBu, ±0.5 dB
 Compression Ratio 7:1
 Attack Time
 10 dB input step 5 mSec
 Release Time
 40 dB input drop 15 Sec
 10 dB input drop 3 Sec
 Input Impedance, Z_{IN} 50 kΩ
 Output Impedance, Z_{OUT} <0.5 Ω
 Power Supply
 Supply Voltage Range ±13.5 V to ±16.5 V
 Supply Current
 V = +15 V 15 mA
 V = -15 V 15 mA

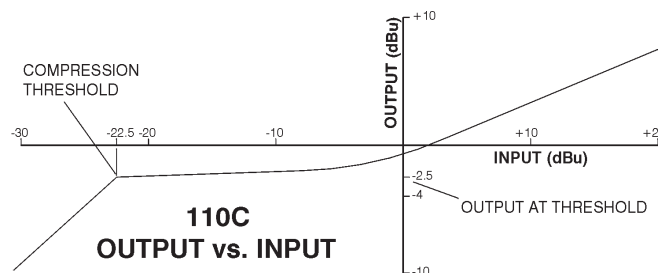
MECHANICAL

Size 0.90" H X 0.95" W X 1.95" L
 Weight (15 g) 0.53 Oz.

PIN CONNECTIONS



PIN	FUNCTION	PIN	FUNCTION
1	Input +	8	+15 V
2	No Pin	9	-15 V
3	No Pin	10	No Pin
4	Ground	11	Ground
5	No Pin	12	No Pin
6	No Pin	13	Control 2
7	Output +	14	Control 1



IED Model 110C Compressor
 Typical Output vs. Input Characteristic

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