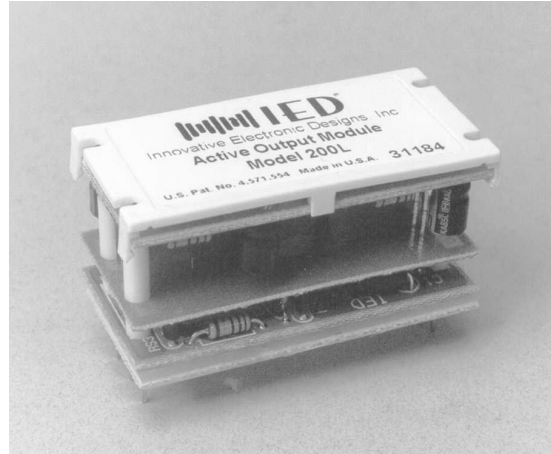


IED MODEL 200L

ACTIVE OUTPUT MODULE

The IED Model 200L Active Output Module is designed to provide the line level audio output stage on many IED audio circuit cards. It is used for this purpose on most IED circuit cards, including IED 4000 Series Automatic Mixer, 5000 Series Audio Processing System, and 500ACS Announcement Control System cards. The IED Model 200L performs the same function as the output transformer while eliminating the disadvantages. Two major features are low output impedance (less than .5 ohm) and ground isolation. The low output impedance allows the unit to be loaded without adding distortion, and the performance is independent of the terminating load. Ground isolation provides a balanced Floating output plus the performance of an active output amplifier without the disadvantages of an output transformer.



FEATURES:

- Drives Long Balanced Lines
- Balanced, Floating Active Output
- Low Output Impedance
- Wider Bandwidth
- Eliminates High Distortion at Low Frequencies
- Improves Overall System Performance
- Cost Efficient

SPECIFICATIONS:

ELECTRICAL at +15 V, -15 V, 25C (77F), 600 Ω Load

Gain	6 dB
Frequency Response	±0.5 dB
+24 dBu, 20 Hz - 20 kHz	
Maximum Input Level	+18 dBu
Maximum Output Level	+24 dBu
R _L = 600 Ω	
Total Harmonic Distortion, THD	<0.007%
+24 dBu, R _L = 600 Ω	
20 Hz - 20 kHz	
10 Hz - 80 kHz filters	
Intermodulation Distortion, IM	<0.005%
+24 dBu, R _L = 600 Ω, 60 Hz + 7 kHz	

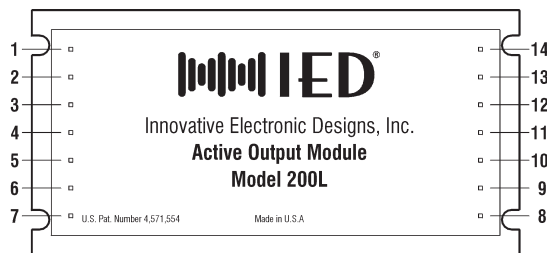


Noise Referred to the Input, NRI -86 dB
 22 Hz - 22 kHz filters
 Output Common Mode Rejection Ratio, CMRR >60 dB
 2 kHz, 22 Hz - 22 kHz filters
 Input Impedance, Z_{IN} 1 M Ω , $\pm 5\%$
 Input Source Impedance, Z_S 1 M Ω
 Output Impedance, Z_{OUT} <0.5 Ω
 Common Mode Output Impedance. 10 k Ω
 Power Supply
 Supply Voltage Range ± 13.5 V to ± 16.5 V
 Supply Current
 V = +15 V 6 mA
 V = -15 V. 6 mA

MECHANICAL

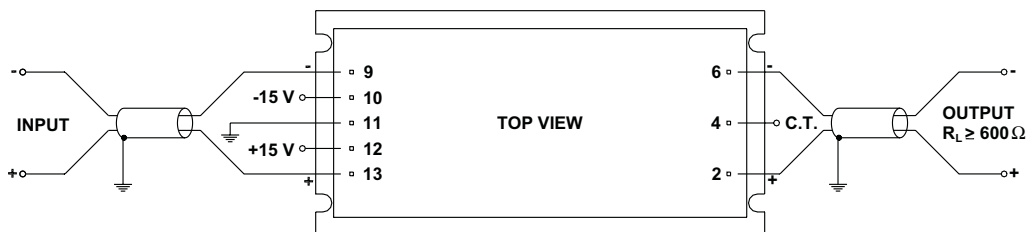
Size 0.90" H X 0.95" W X 1.95" L
 Weight (25g) 0.89 Oz

PIN CONNECTIONS



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

TYPICAL APPLICATION



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