

The Model **2040 Distribution Amplifier** Card is used in voice frequency, audio systems to fan out one channel to many channels. The card accepts from one to four independent inputs which can be distributed to up to 24 outputs. An option (jumper) matrix provides connections to achieve the following fan outs:

<u>INPUT/S</u>	to	<u>OUTPUTS</u>
1		24
2		12
4		6

Input / Output Impedance - All inputs and outputs are balanced, differential, floating with 600 Ohm Impedance. Input (600 Ohm) terminations can be opened to permit interconnection of inputs of two 2040 Cards - to provide additional fan out capability.

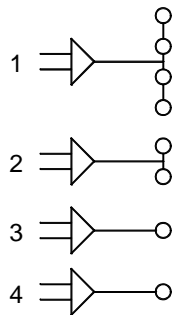
Gain - The gain of the 2040 is fixed at unity (0 dB), and there are no operator controls. The amplifiers will handle signals up to +10 dBm with less than 1% distortion.

Noise - The low noise design provides a wide dynamic operating range on excess of 60 dB.

SPECIFICATIONS

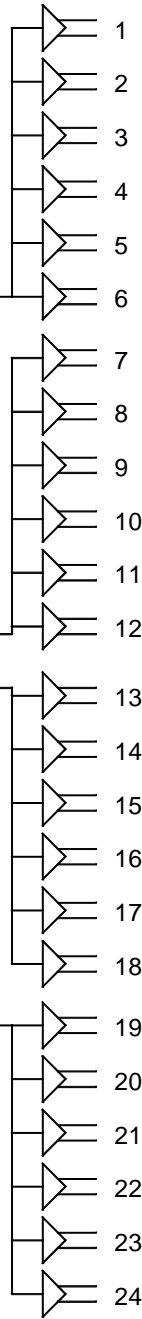
Frequency Range	56 Hz to 3400 Hz
I/O Impedance	600 ohm - balanced, floating
I/O Return Loss	Greater than 26 dB
Common Mode Bal.	Greater than 40 dB
Input/Output Level	+10 dBm maximum
Nonlinear Distortion	Less than 1% at +10 dBm
Noise	Less than -60 dBmC
Environmental	0 to 50°C, 95% R.H.
Power Requirements	6.5 Vdc, 60.3 Amp max.
Dimensions:	7.0" H x .75" W x 10.4" D 178 mm x 19 mm x 264 mm
Weight	1.5 lbs, .7 kg.

DIFFERENTIAL
RECEIVERS



JUMPER
MATRIX

DIFFERENTIAL
DRIVERS



BLOCK DIAGRAM / 2040 DISTRIBUTION AMPLIFIER

Warranty All Convex Products are warranted to be free of manufacturing defects for a period of one year from the date of shipment.

Convex Corporation - 1319 Shepard Drive - Sterling, VA 20164 USA
703-433-9901 - fax 703-433-9904 - www.ConvexCorp.com