

Board Stacking 101

CINCINNATI, OHIO

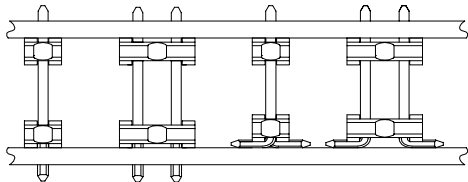
SALES BULLETIN SB-1400

Crane's "Railroad" Style Headers Make Sure You Stay On The Right (Board Stacking) Track!



A VERSATILE PRODUCT

One of the most popular products used to connect parallel (mezzanine) printed circuit boards is the **RAILROAD TRACK** style pin strip header. The part gets its name from the fact that, when laid flat on a surface, it resembles a stretch of railroad track. **DUAL INSULATORS** allow a preset standoff distance to be achieved between the two PC boards when hard mounted (soldered at both ends) to the board.



Crane offers a **WIDE VARIETY** of styles and options of this popular part including:

- Single, Dual and Triple Rows
- 0.100", 0.079" and 0.050" Centers
- Thru-Hole and SMT Terminations
- Straight and Right Angle Versions
- Gold Plating of 50u, 30u, 15u, 10u
- Gold Flash and Tin Plate Options
- Hold-Down Pegs or Kinked Tails
- Wide variety of pin lengths

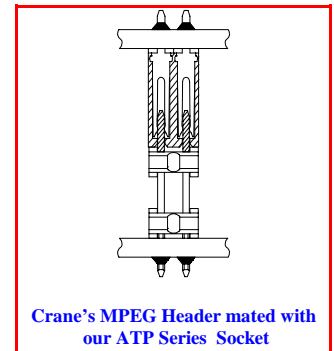
In addition, these parts feature Crane's **MATE-RITE TIP™** ... superior pin tip geometry that lessens insertion forces while reducing the possibility of scraping (and skiving) mating sockets.



OUR CONNECTORS REALLY STACK UP!

Crane has received a wide variety of requests for overall board stacking heights, including some pretty tall ones. One customer required a mated board stacking height of **2.400" (61,00mm)**. Crane was able to meet that need by

using a combination of its **MPEG** Series Pin Strip Headers and its new **MATP** Series Elevated Board Mount Sockets. The two parts together provided the needed height.



NOTE: Crane's parts really **STACK DOWN** as well! When Crane's **DPEG** Series headers

are mated with Crane's low profile **Abs** Series Board Mount Sockets, separable connections as low as **0.200" (5,08mm)** are achievable.

Please see the reverse side of this bulletin for a chart of available **RAILROAD TRACK** style headers. Also, please consult our **C57** Full Line Catalog for detailed information on available pin lengths as well as a wide assortment of mating sockets.

Still Don't See What You Need?

Crane's unique **TAILORED** (Non-Standard/No Penalty) products may be just the ticket! Just fax Crane with a copy of your requirements and let us "tailor" a product to your exact need.

“Railroad Track” Style Pin Strip Headers from Crane

PRODUCT SERIES	ROW SPACING	NUMBER ROWS	BODY STYLE	TERMINATION STYLE	CATALOG PAGES
MPEG	0.100"	S / D / T	Unshrouded	Thru-Hole / Straight	12-13
MPEG	0.100"	S / D / T	Unshrouded	Thru-Hole / Right Angle	28-29
FMPEG	0.100"	S / D	Unshrouded	Thru-Hole / Straight	14-15
GMPEG	0.100"	S / D	Unshrouded	SMT / Straight	20-21
MPLS / T	0.100"	D	Shrouded	Thru-Hole / Straight	34-35
MPGM	0.079"	S / D	Unshrouded	Thru-Hole / Straight	58-59
MPGM	0.079"	S / D	Unshrouded	SMT / Straight	64-65
MPFF/H	0.050"	S / D	Unshrouded	Thru-Hole / Straight	78-79
MPLF/H	0.050"	D	Shrouded	Thru-Hole / Straight	82-83
MPFF/H	0.050"	S / D	Unshrouded	SMT / Straight	88-89
MPLF/H	0.050"	D	Shrouded	SMT / Straight	90-91

DON'T SEE WHAT YOU NEED? A wide variety of options are available in the above referenced parts as TAILORED (Non-Standard / No Penalty) products. Contact the factory for more information.

-- SAMPLE APPLICATION --

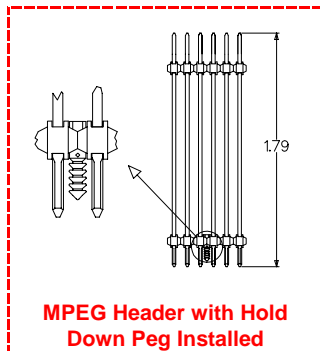
Crane's Unique HOLD-DOWN Pegs Help Keep Extra Tall “Railroad Track” Header In Vertical Plane

MPEG SERIES PIN STRIP HEADERS

(Reference pages 12-13 in C57 Catalog)

A manufacturer of set top boxes for cable TV recently asked Crane for a solution to a board stacking problem. Since his application required a very tall part, he was having trouble keeping it in **VERTICAL PLANE** during the solder process. Although kinked tails kept the part from “floating” on the wave, they did not keep the part from **LEANING**.

To solve the problem, Crane produced the header with our unique pegging option. By installing two **TOP ENTRY PEGS**, Crane was able to “snug” the header to the board during the solder process, keeping it in vertical



plane to the PCB (printed circuit board).

Crane's unique **PEGGING SYSTEM** is available as a standard option on most of our 0.100" pin strip headers. For more information on ordering this option, please see pages 100-102 in our C57 Full Line Catalog. NOTE: For other board retention needs, Crane offers its “railroad style” headers with a kinked tail. Just select the “K” option in the part number.

To make sure you're on the “right track,” get on board the **CRANE TRAIN** for **ALL** your board stacking



requirements!