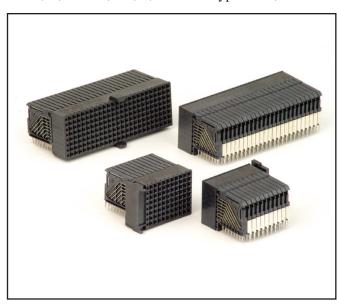
## 3M™ Ultra Hard Metric (UHM) Press-Fit Socket

2 mm, D, DPWR, DE, E, FL & FR Types: 176, 200 or 88 Signal Contacts, 8 Rows, Right Angle UHM Series



- 7+ Gbps data rates when mated to standard IEC 61076-4-101 headers.
- Low crosstalk at high frequencies
- $50/100 \Omega$  (single-ended/differential) impedance
- Modular/scalable format IEC 61076-4-101
- · Press-fit headers and receptacles
- 101 mated lines per linear inch
- Dual beam contact construction for high reliability
- End-to-end stackable with 8-Row 3M<sup>™</sup> CP2, HM, UHM and HSHM Sockets
- Mates with 3M<sup>™</sup> CP2, HM, UHM, HSHM Headers
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3Mconnector.com for compliance information (RIA E1 & C1 apply)

Date Modified: February 15, 2010

TS-2326-B Sheet 1 of 5

### **Physical**

#### **Insulation:**

Material: High Temperature Thermoplastic (LCP) - black or natural

Flammability: UL 94V-0

**Contact:** 

Material: Copper Alloy

Plating: See Ordering Information

#### **Performance**

#### **Mechanical:**

Normal Force (Nominal): 0.57 N [58 g] Signal, (0.74 N [75 g] Shield with HSHM & UHM headers) Engagement Force (Nominal): 0.32 N [33 g] Signal, (0.22 N [22 g] Shield with HSHM & UHM headers) Separation Force (Nominal): 0.20 N [20 g] Signal, (0.20 N [20 g] Shield with HSHM & UHM headers)

Wipe (Nominal, Shortest Contact): 2.67 mm [0.105 in] Signal, 1.57 mm [0.062 in] Shield

Application: These modules are not suitable for stand-alone use, additional guide features

recommended per IEC 61076-4-101

#### **Electrical:**

Data Rate: 7+ Gbps data rates (when mated to standard IEC 61076-4-101 headers)

Characteristic Impedance:  $50\,\Omega$  Single-ended,  $100\,\Omega$  Differential

Current Rating (Fully Loaded):  $1~A~@~70^{\circ}~C~Signal$  Insulation Resistance:  $10^4~M\Omega~@~100~V_{DC}$ 

Withstanding Voltage: 750 V<sub>RMS</sub>

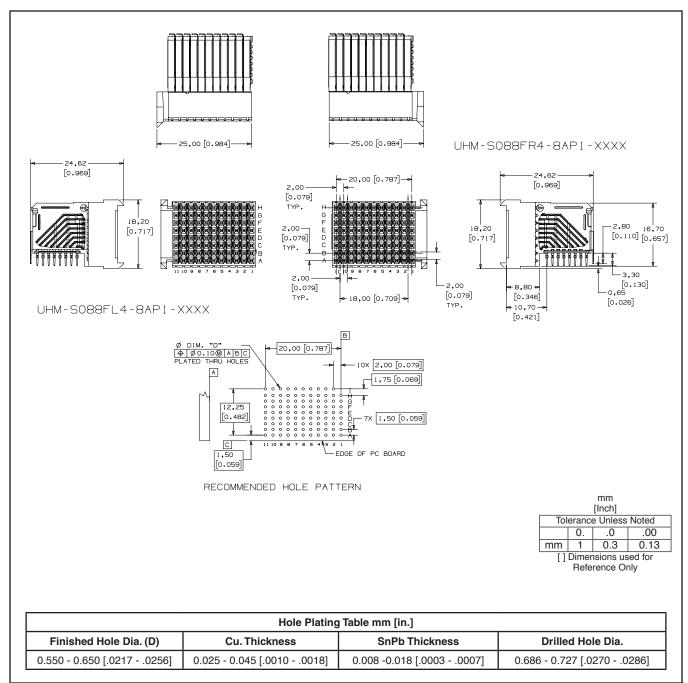
#### **Environmental**

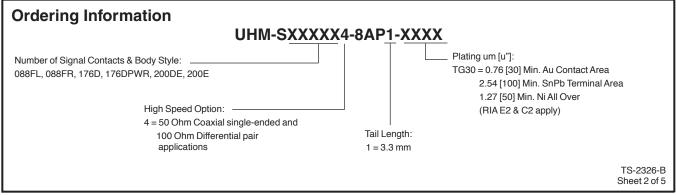
**Temperature Rating:** -55° C to 125° C

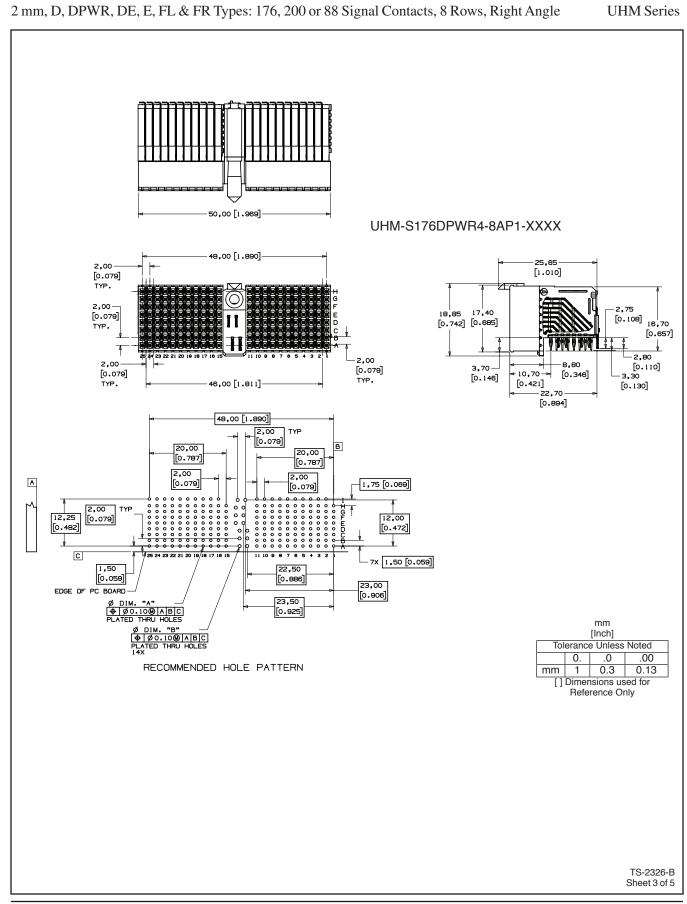
UL File No.: E68080

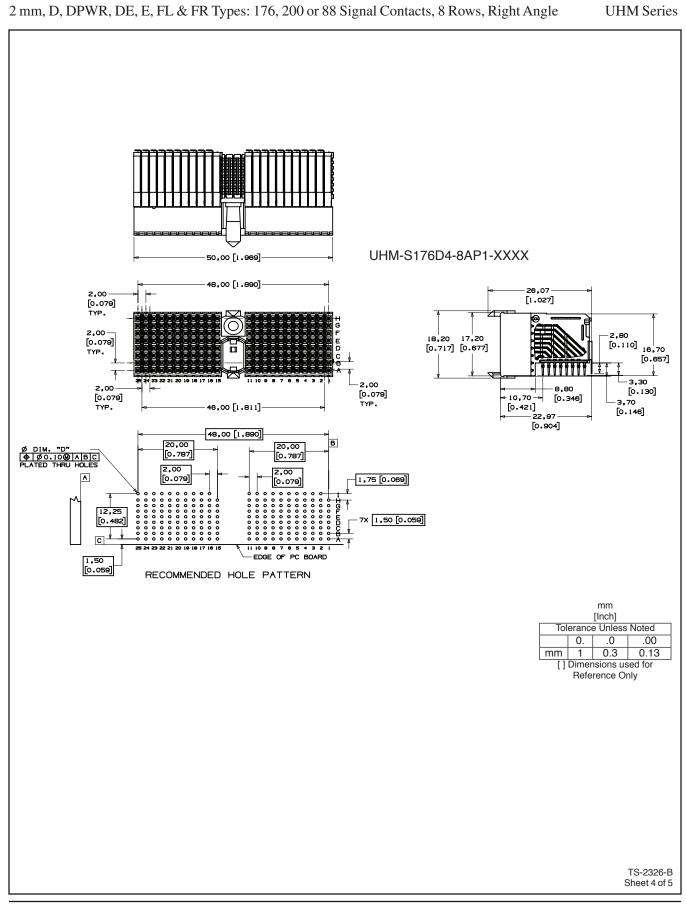
2 mm, D, DPWR, DE, E, FL & FR Types: 176, 200 or 88 Signal Contacts, 8 Rows, Right Angle

**UHM Series** 





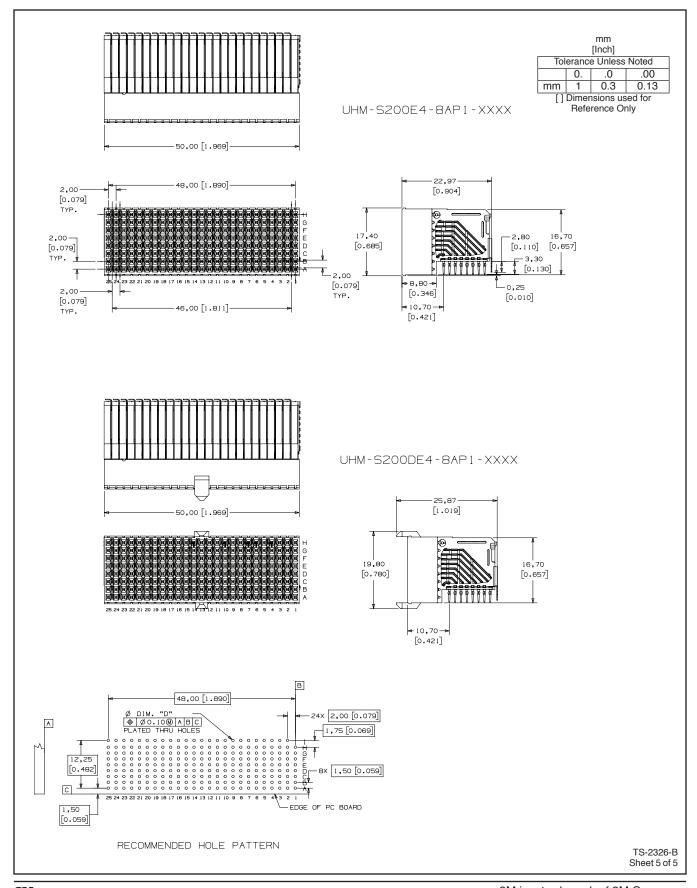




# 3M<sup>™</sup> Ultra Hard Metric (UHM) Press-Fit Socket

2 mm, D, DPWR, DE, E, FL & FR Types: 176, 200 or 88 Signal Contacts, 8 Rows, Right Angle

**UHM Series** 



# **Important Notice** All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M. Warranty; Limited Remedy; Limited Liability. This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. 3M MAKES NO OTHER WARRANTIES

INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of

3M is a trademark of 3M Company.

the legal theory asserted.

6801 River Place Blvd. Austin, TX 78726-9000

www.3Mconnector.com

U.S.A. 1-800-225-5373

**3M Electronics Solutions Division** 

## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## 3M:

UHM-S200DE4-8AP1-TG30 UHM-S088FL4-8AP1-TG30 UHM-S176D4-8AP1-TG30 UHM-S200E4-8AP1-TG30