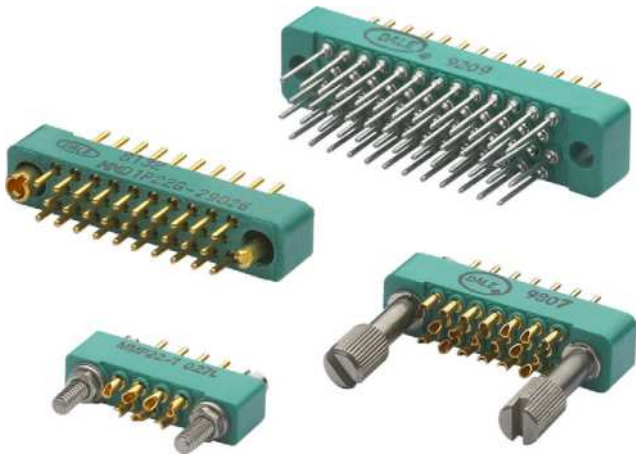
# Rack and Panel Connectors Military, MIL-C-28748/7/8 Qualified and Commercial Microminiature Rectangular



## FEATURES

- Qualified to MIL-C-28748/7/8
- Solder cup contacts
- Dip solder contacts
- Fixed and turnable screwlocks
- Optional closed entry socket contacts

## APPLICATIONS

Especially suited for use in airborne, instrumentation, and portable equipment applications or wherever the following requirements must be met: minimum space and weight without sacrifice of performance, high quality materials, long service life, high vibration and shock resistance, and positive locking.

## ELECTRICAL SPECIFICATIONS

**Current rating:** MM22 = 5 A, MM24 = 3 A

**Breakdown voltage:** at sea level: 2000 $V_{RMS}$
at 70 000 feet: 500 $V_{RMS}$

## MATERIAL SPECIFICATIONS

**Contact Pin:** phosphor bronze

**Contact Socket:** phosphor bronze

**Contact Plating:** gold

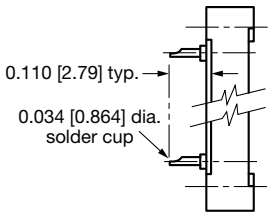
**Screwlocks:** stainless steel, passivated

**Guides:** brass, gold plated or stainless steel, passivated

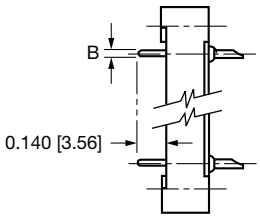
**Standard Body:** glass-filled diallyl phthalate per MIL-M-14, model SDG-F, green

**DIMENSIONS** in inches [millimeters]

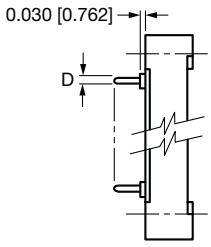
**MMS**
**With Solder Cup Contacts**



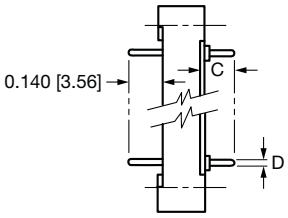

**MMP**
**With Solder Cup Contacts**




**MMDS**
**With Dip Solder Contacts**




**MMDP**
**With Dip Solder Contacts**




| CONTACT GAUGE | B DIAMETER | CONTACT GAUGE | C DIP TAIL LENGTH | D DIAMETER |
|---|---|---|---|---|
| 22 AWG | 0.030 ± 0.001 [0.762 ± 0.025] | 22 AWG | 0.160 [4.06] nom. | 0.025 [0.635] |
| 24 AWG | 0.025 ± 0.001 [0.635 ± 0.025] | 24 AWG | 0.160 [4.06] nom. | 0.025 [0.635] |

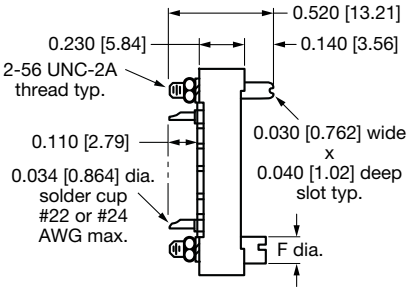


For technical questions, contact: connectors@vishay.com

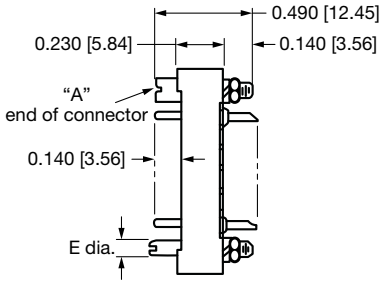
THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000

## DIMENSIONS in inches [millimeters]

### MMS
### With Fixed (026, 027) Guides

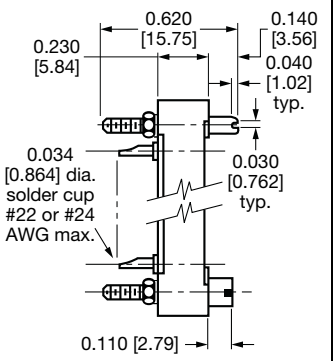



### MMP
### With Fixed (026, 027) Guides

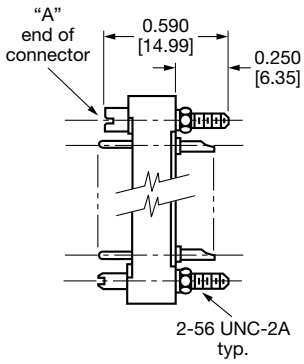



| HARDWARE TYPE | E DIAMETER | F DIAMETER |
|---|---|---|
| 026 | 0.078 [1.98] | 0.125 [3.17] |
| 026L | 0.078 [1.98] | 0.125 [3.17] |
| 027 | 0.078 [1.98] | 0.125 [3.17] |
| 027L | 0.078 [1.98] | 0.125 [3.17] |

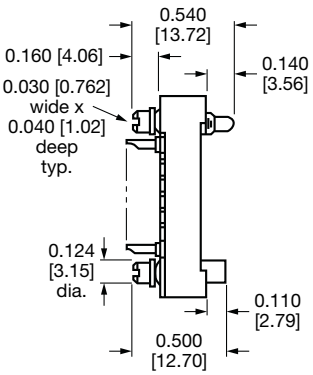
### MMS
### With Fixed (026L, 027L) Guides



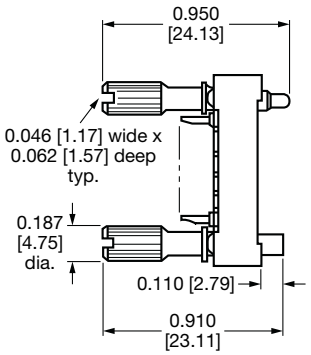

### MMP
### With Fixed (026L, 027L) Guides



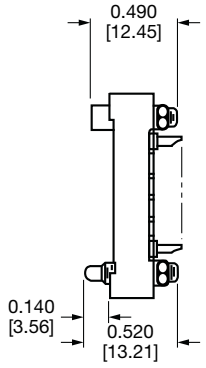

### Short Turntable
### Screwlocks (SK030)



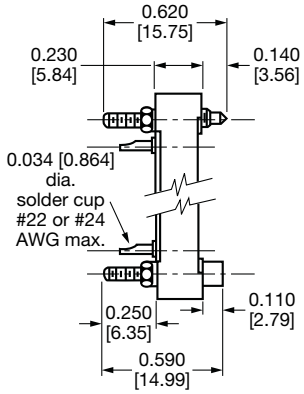

### Turntable
### Screwlocks (SK)



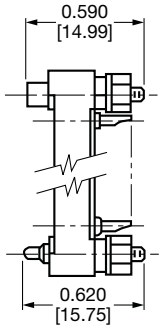

### Fixed
### Screwlocks (SL)



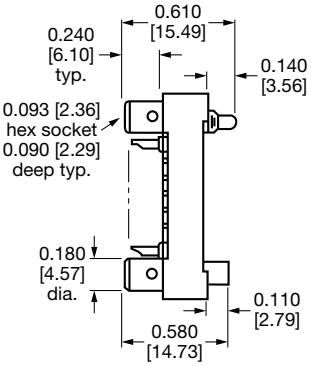

### Fixed
### Screwlocks (SLL)




### Fixed Screwlocks
### and Nylon Retaining Nut
### and Fiber Washer (NSL)




### Short Turnable
### Screwlocks (SK2035)






For technical questions, contact: connectors@vishay.com

THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000

## HARDWARE MATING CHART

| HARDWARE MODEL | MATES WITH HARDWARE MODEL |
|---|---|
| 026 | 026, 026L |
| 027 | 027, 027L |
| SK | SL, NSL or SLL |
| SK030 | SL, NSL or SLL |
| SK2 | SL2, NSL2 or SL2L |
| SK2030 | SL2, NSL2 or SL2L |
| SK2035 | SL2, NSL2 or SL2L |

**Note**

- Either MMP or MMS connectors may be ordered with any type of hardware shown

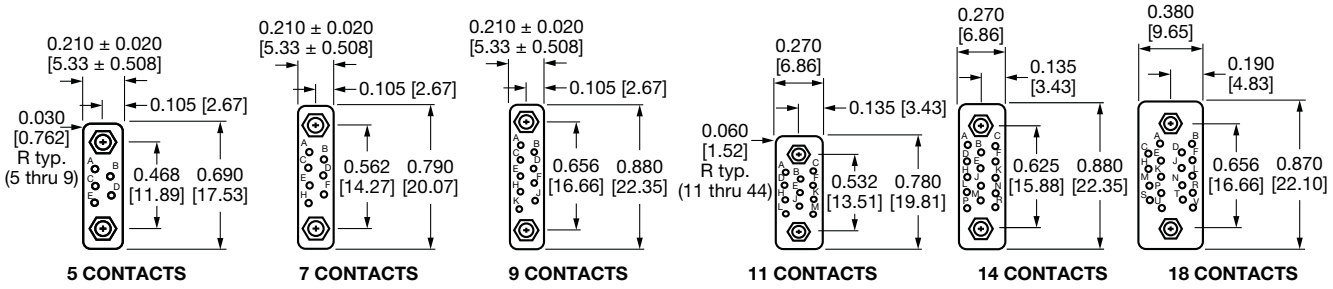
**Examples**

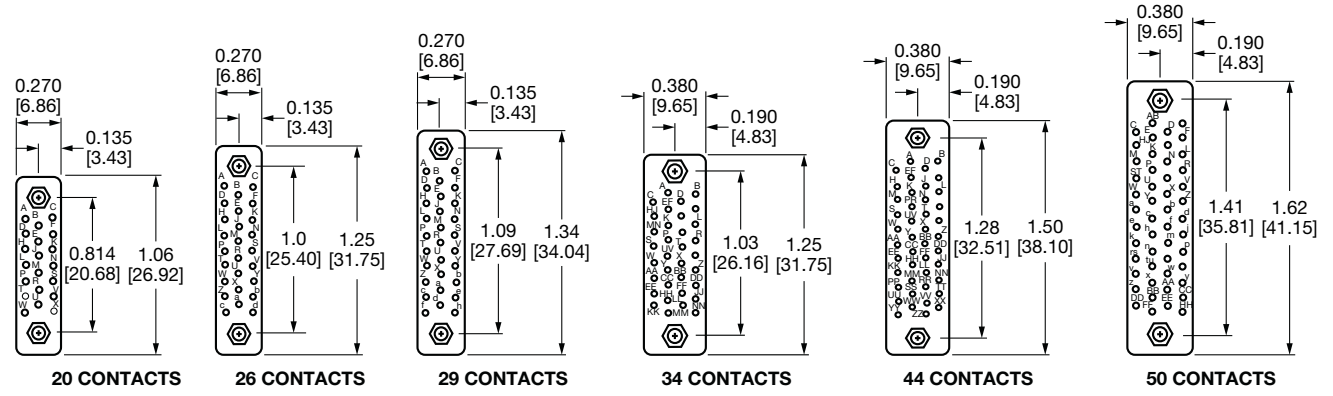
1. MMP with 026 hardware would mate with an MMS with 026 hardware
2. MMS with SK hardware would mate with an MMP with SL or NSL hardware
3. MMS with SL2 hardware would mate with an MMP with SK2 or SK2030 hardware

## DIMENSIONS in inches [millimeters]

**Note**

- The views below show the wiring side of a pin model connector (female is opposite). Socket hardware assembled at “A” contact end of a pin model connector



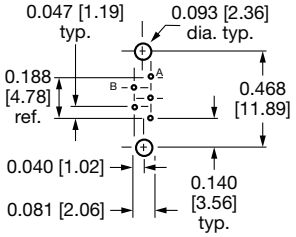





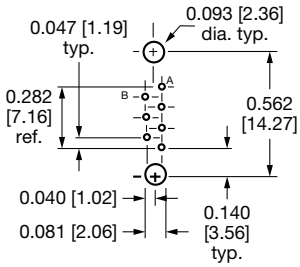

For technical questions, contact: connectors@vishay.com

THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000

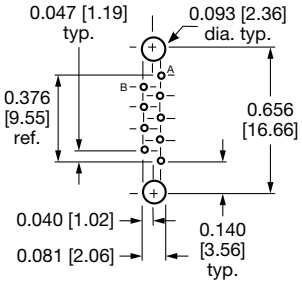
## MOUNTING VARIATIONS in inches [millimeters]




**5 CONTACTS**

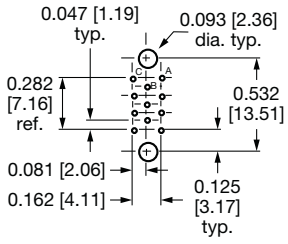



**7 CONTACTS**

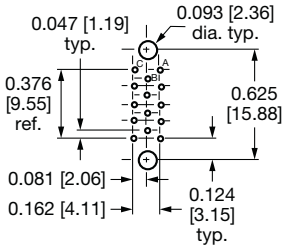



**9 CONTACTS**

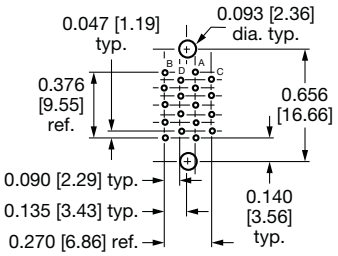
**DIP SOLDER PC BOARD MOUNTING PATTERNS**
Male (MMP) connector shown - female is opposite. Contact, contact row and mating hole $C_L$ to $C_L$ Dimensions also applies to solder cup style connectors.



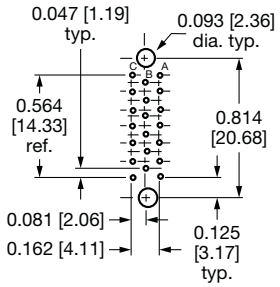

**11 CONTACTS**



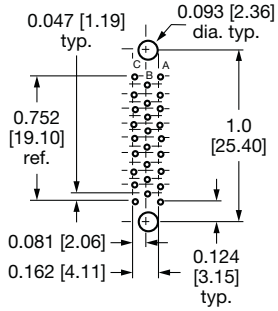

**14 CONTACTS**



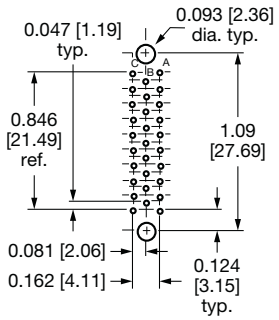

**18 CONTACTS**



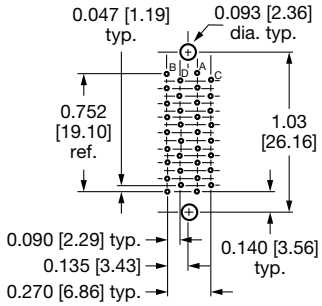

**20 CONTACTS**



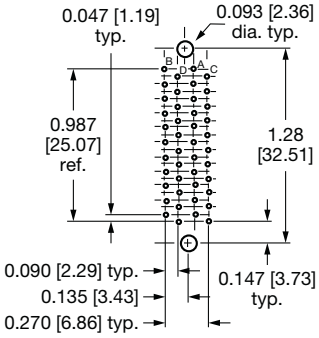

**26 CONTACTS**



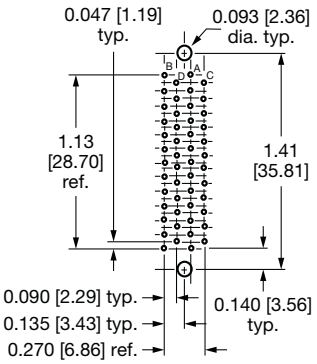

**29 CONTACTS**




**34 CONTACTS**



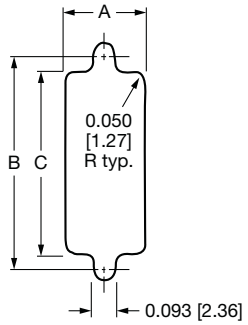

**44 CONTACTS**




**50 CONTACTS**


For technical questions, contact: connectors@vishay.com
THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000

## PANEL CUTOUT in inches [millimeters]




| NUMBER OF CONTACTS | A | B | C | NUMBER OF CONTACTS | A | B | C |
|---|---|---|---|---|---|---|---|
| 5 | 0.210 [5.33] | 0.468 [11.89] | 0.340 [8.64] | 20 | 0.270 [6.86] | 0.814 [20.68] | 0.690 [17.53] |
| 7 | 0.210 [5.33] | 0.562 [14.27] | 0.440 [11.18] | 26 | 0.270 [6.86] | 1.0 [25.40] | 0.870 [22.10] |
| 9 | 0.210 [5.33] | 0.656 [16.66] | 0.530 [13.46] | 29 | 0.270 [6.86] | 1.09 [27.69] | 0.970 [24.64] |
| 11 | 0.270 [6.86] | 0.532 [13.51] | 0.410 [10.41] | 34 | 0.380 [9.65] | 1.03 [26.16] | 0.910 [23.11] |
| 14 | 0.270 [6.86] | 0.625 [15.88] | 0.500 [12.70] | 44 | 0.380 [9.65] | 1.28 [32.51] | 1.16 [29.46] |
| 18 | 0.380 [9.65] | 0.656 [16.66] | 0.530 [13.46] | 50 | 0.380 [9.65] | 1.41 [35.81] | 1.28 [32.51] |

## ORDERING INFORMATION

**CONNECTOR** **HARDWARE**

| C | MM | D1 | P | 22 | G | - | 5 | R | 026 [1] |
|---|---|---|---|---|---|---|---|---|---|
| CONTACTS | MODEL | TERMINATION | CONTACT STYLE | CONTACT SIZE | PLATING | | NUMBER OF CONTACTS | (OPTIONAL) | HARDWARE VARIATIONS |

- MODEL: Microminiature
- CONTACT STYLE: P = pin; S = socket
- CONTACT SIZE: 22 AWG = 0.030" [0.762 mm] diameter; 24 AWG = 0.025" [0.635 mm] diameter
- TERMINATION: (OPTIONAL) Dip solder termination optional. (Omit for standard solder cup) Select tail length: D1 = 0.160" [4.06 mm] nominal
- PLATING: Optional plating available: G = Gold (0.00003 thick) over Nickel; G5 = Gold (0.00005 thick) over Nickel; Omit designator for gold (0.00001 thick) over Nickel
- NUMBER OF CONTACTS: 5, 7, 9, 11, 14, 18, 20, 26, 29, 34, 44 or 50
- (OPTIONAL): R = Reversed guides or screwlocks (Omit for standard)
- CONTACTS: (OPTIONAL) Closed entry socket contacts optional on 22 AWG socket contacts **only**. (Omit for standard contacts)
- HARDWARE VARIATIONS: (Omit if no hardware desired)
  - 026 = slotted brass guides 0.078" [1.98 mm] diameter
  - 026L = *long* slotted brass guides 0.078" [1.98 mm] diameter
  - 027 = slotted cres guides 0.078" [1.98 mm] diameter
  - 027L = *long* slotted cres guides 0.078" [1.98 mm] diameter
  - SL = chassis mounted fixed screwlocks (3-48 thread)
  - SL2 = chassis mounted fixed screwlocks (2-56 thread)
  - SLL = chassis mounted fixed screwlocks *long* (3-48 thread)
  - SL2L = chassis mounted fixed screwlocks *long* (2-56 thread)
  - NSL = chassis mounted fixed screwlocks (3-48 thread) with nylon retaining nuts and fiber washers
  - NSL2 = chassis mounted fixed screwlocks (3-48 thread) with nylon retaining nuts and fiber washers
  - SK = cable mounted - turnable screwlocks (3-48 thread)
  - SK2 = cable mounted - turnable screwlocks (2-56 thread)
  - SK030 = cable mounted - turnable screwlocks (3-48 thread) with short knobs
  - SK2030 = cable mounted - turnable screwlocks (2-56 thread) with short knobs
  - SK2035 = cable mounted - tunable screwlocks (2-56 thread) with socket head knobs

**Note**

(1) To order complete connector with hardware supplied unassembled, add suffix “UA” on end of hardware designation



For technical questions, contact: connectors@vishay.com

THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000

# Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, “Vishay”), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

Vishay products are not designed for use in life-saving or life-sustaining applications or any application in which the failure of the Vishay product could result in personal injury or death unless specifically qualified in writing by Vishay. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

*© 2026 VISHAY INTERTECHNOLOGY, INC. ALL RIGHTS RESERVED*



THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000