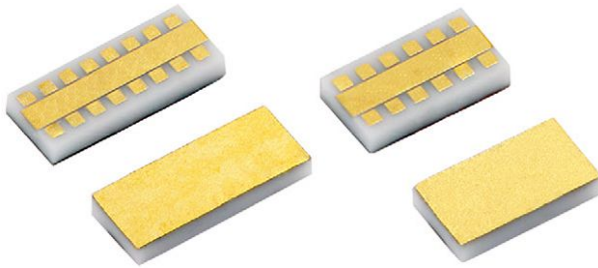


Wire Bondable Thin Film Micro-Strip Transmission Line Resistor Arrays



Product may not be to scale

MTLP series of thin film 50 Ω micro-strip configuration with two rows of tuning pads are designed for test and measurement applications.

Standard configurations of the MTLP series include an array of wire bondable terminations that allow integration of discrete components.

Custom configurations including open, short and load element are available upon request.

FEATURES

- 50 Ω micro-strip configuration
- Wire bondable terminations
- Alumina (99.6 %) substrate; as-fired or polished

APPLICATIONS

- Test and measurement setups
- Network analyzer calibration elements
- RF bread boarding
- High frequency hybrid assemblies

CUSTOM DESIGNED ELEMENTS

Vishay EFI will custom design additional geometries and form factors upon request.

Information about standard design rules can be found at www.vishay.com/doc?49109

STANDARD ELECTRICAL SPECIFICATIONS		
PARAMETER	VALUE	UNIT
Characteristic Impedance	50	Ω
Mechanical Tolerances	± 0.1 (± 4 μm)	mil
Operating Temperature Range	-55 to +125	°C

DIMENSIONS in inches		
LENGTH	WIDTH	THICKNESS
0.01 to 0.5	0.03 ± 0.002	0.010 ± 0.001



MECHANICAL SPECIFICATIONS	
PARAMETER	VALUE
Substrate Thickness	10 mils ± 1 mils (as-fired) ± 0.5 mils (polished)
Substrate Material	Alumina 99.6 %
Metallization	TiW (750 ± 250 Å)/Au (120 μ" min.)
Micro-strip Line Width	10 mils ± 0.1 mils
Available Line Lengths	0.010" to 0.0500"

ORDERING INFORMATION			
MTLP 300 P WS - 0.30" long transmission line on polished Alumina			
MODEL	LENGTH	SURFACE FINISH	PACKAGING CODE
MTLP Micro-strip transmission line with tuning pads	XXX 010 015 020 055 090 300	F = as-fired P = polished	WS = 100 mult., 1 min. waffle pack



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.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. 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.