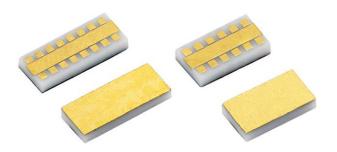


## Wire Bondable Thin Film Micro-Strip Transmission Line Resistor Arrays



Product may not be to scale

MTLP series of thin film 50  $\Omega$  micro-strip transmission lines 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**

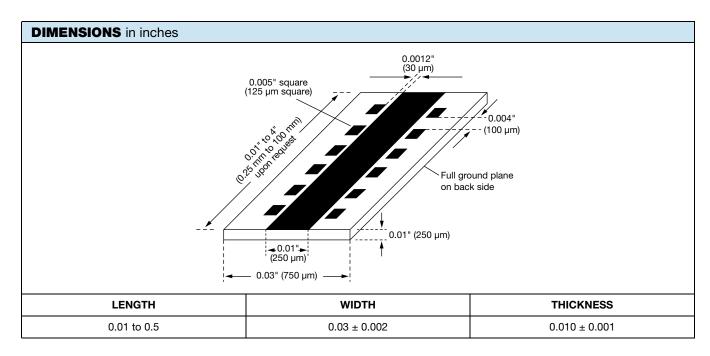
- Test and measurement setups
- Network analyzer calibration elements
- · RF bread boarding
- · High frequency hybrid assemblies

#### **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.vishav.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	







# Vishay Electro-Films

MECHANICAL SPECIFICATIONS			
PARAMETER	VALUE		
Substrate Thickness	10 mils $\pm$ 1 mils (as-fired) $\pm$ 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				
MTLP Micro-strip transmission line with tuning pads	XXX 010 015 020 055 090 300	<b>F</b> = as-fired <b>P</b> = polished	<b>WS</b> = 100 mult., 1 min. waffle pack	



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