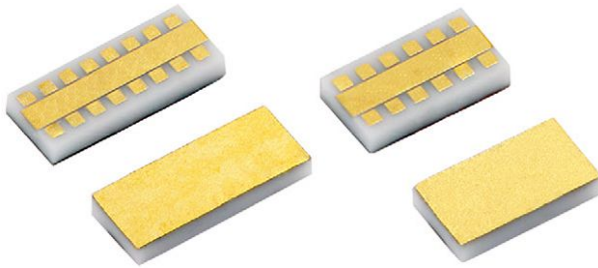


## Wire Bondable Thin Film Micro-Strip Transmission Line Resistor Arrays



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](http://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



<b>MECHANICAL SPECIFICATIONS</b>	
<b>PARAMETER</b>	<b>VALUE</b>
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"

<b>ORDERING INFORMATION</b>			
<b>MTLP 300 P WS - 0.30" long transmission line on polished Alumina</b>			
<b>MODEL</b>	<b>LENGTH</b>	<b>SURFACE FINISH</b>	<b>PACKAGING CODE</b>
<b>MTLP</b> Micro-strip transmission line with tuning pads	<b>XXX</b> 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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