

QUESTTECH

Thick & Thin Film Resistor Trimming

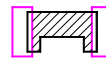
Applications

General

Passive Resistor Value Adjustment on Thick Film and Thin Film Substrates
Galvanometer beam positioning YAG lasers for maximum economy

Types

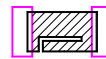
Hybrid Networks
Microwave Attenuators
Balanced Trims
Chip Resistors
Three or more Resistors in a Loop
(Active Guard)
Ratio Trims
Multilayer



Scrub



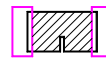
Serpentine



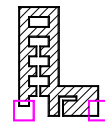
"L"



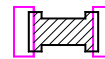
Vernier



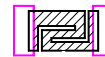
Plunge



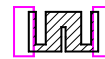
Ladder



Symmetrical Scrub



Opposing "L"



Top Hat

Uses

Hybrid Microcircuits
Conventional
Power
Microwave
Chip resistors

Materials

Thick Films on Alumina or Beryllia (BeO)
Thin Films on Alumina, Silica, Aluminum Nitride, Beryllia (BeO)

Trim Configurations

Design Guidelines

Property	Nominal	Units
Standard Resistance Range	0.1 to 30,000,000	Ohms
Extended Resistance Range	up to 999	MΩ
Standard Tolerances	+/- 1.0	%
Special Tolerances	+/- 0.5	%
Thick Film Kerf Width	0.002	Inches
Thin Film Kerf Width	0.001	Inches
Maximum Probes per Card	30	Ea
Kerf Debris	None	None
Kerf Bridging	None	None
Substrate Penetration	0.0005	Inches

Questech Services Corporation
2201 Executive Drive
Garland, Texas 75041 USA

800-736-1664
972-278-8006
Fax: 972-278-8036

e-mail: sales@questlaser.com
Website: www.questlaser.com