

DESIGNER'S KIT K1-TRAN-HP+

High Power Transformers

10 to 1000 MHz



FEATURES

- Wide Bandwidth
- High Power Handling, up to 20W
- Choice of Impedance ratios: 0.5, 1, 2, and 4
- Leadless surface mount
- Small size, up to 0.433 x 0.69 in.
- Aqueous washable
- Low cost

MINI-CIRCUITS DESIGNER'S KITS
SPEED UP
THE SOLUTION



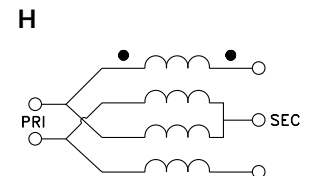
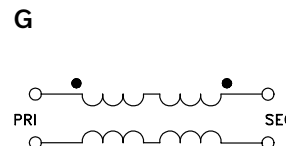
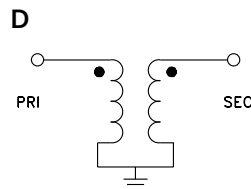
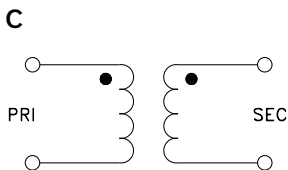
K1-TRAN-HP+ ELECTRICAL SPECIFICATIONS

(5 models, 5 of each, 25 total)

Model	Frequency (MHz)	Ω Ratio	Insertion Typ. (dB)	Max Input Power (W)	Configuration
SYTX2-61HP+	10-60	0.5	0.3*	12.5	C
SYTX1-52HP-15W+	20-520	1	0.4	15	G
SYTX2-451-5W+	10-450	2	0.3*	5	C
SYTX2-52HP-20W+	30-520	2	0.8	20	D
SYTX4-13HP+	30-1000	4	1.0*	10	H

* Insertion loss is referenced to mid-band loss.

CONFIGURATIONS





All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-40° to 85°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Humidity	90 to 95% RH, 240 hours, 50°C	MIL-STD-202, Method 103, Condition A, Except 50°C and end-point electrical test done within 12 hours
Thermal Shock	-55° to 100°C, 100 cycles	MIL-STD-202, Method 107, Condition A-3, except +100°C
Solder Reflow Heat	Sn-Pb Eutetic Process: 225°C peak Pb-Free Process 245° - 250°C peak	J-STD-020, Table 4-1, 4-2 and 5-2, Figure 5-1
Solderability	10X Magnification	J-STD-002, 95% Coverage
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	50g, 11 ms, 1/2-sine, 18 shocks: 3 each direction, each of 3 axes	MIL-STD-202, Method 213, Condition A
Marking Resistance to Solvents	Isopropyl alcohol + mineral spirits at 25°C; terpene defluxer at 25°C; distilled water + proylene glycol monomethyl ether + monoethanolamine at 63°C to 70°C	MIL-STD-202, Method 215