Remote Antenna Switches for HAM RADIO



StackMatch "SM3-3kW-Wide Band"

Three Antenna Phasing Relay Unit, 3-port, 3 kW, 160-10 meters

For combining three directional antennas or splitting power to drive three power amplifiers

SKU: SM3-3kW-WB

- Three antenna ports in phase, default with no power to control console;
- Ability to switch any single or any two antennas out of the array;
- Multiplexer technology ready © unselected ports terminated to 8W, 50 ohm resistor;
- Laser markings of ports and control connections, lasts forever;
- · LED indication of unused antenna;
- Phoenix pluggable terminal block (6 pins, 5.08mm pitch);
- Feedlines to each antenna from the relay unit must be the same cable of the same length and match the antenna impedance;
- LowBandSystem`s control console suggested:
 - o control consoles CC-SM4B series;
 - o control consoles CC-UCC8B series;

Features:

RF design:
Antenna inputs:
Power handling (1.8-30 MHz, antennas SWR <1.5:1)

RF Connectors

Insertion loss 1.8 \div 30 MHz VSWR 3.5 \div 30 MHz, Single antenna VSWR 3.5 \div 30 MHz, Two antennas VSWR 3.5 \div 30 MHz, Three antennas

Control voltage

MOV surge protection on control lines

Control wire required

Size:

Net weight:

Broadband ferrite transformer, 2.25:1 ratio

Three 3kW ICAS

PTFE SO-239 (UHF) connectors, (other types on custom order)

< -0,06 dB < 1,1:1 < 1,2:1 < 1,35:1

12VDC (24VDC on custom order)

Five conductor

190 x 210 x 85 mm / 7,5" x 8,3" x 3,4" ≤1,0 kg / 2,2 lbs.

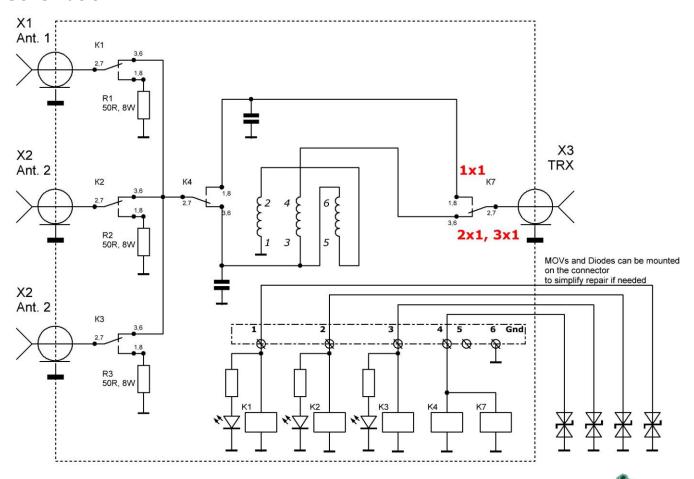


^{*} Subject to change without notice

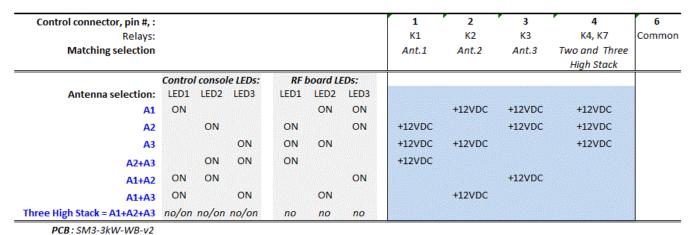
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Schematic:



Truth table:



It is very important to ensure 12VDC at the Stack Match terminals, counting loses in a control line!