Remote Antenna Switches for HAM RADIO



StackMatch "SM3-3kW-Mono Band"

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

For combining three directional antennas or splitting power to drive three power amplifiers with optimal features

SKU: SM3-3kW-Band

- 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: MonoBand LC matching

Antenna inputs: Three

Power handling (1.8-30 MHz, antennas SWR <1.5:1) 3kW ICAS

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

Insertion loss \leq -0,06 dB VSWR on any band, Single antenna \leq 1,1:1

VSWR on any band, Two antennas $\leq 1,1:1$ VSWR on any band, Two antennas $\leq 1,1:1$ VSWR on any band, Three antennas $\leq 1,1:1$

VSWR on any band, Three antennas ≤ 1,1:1 Control voltage 12VDC (2:

Control voltage 12VDC (24VDC on custom order)
MOV surge protection on control lines

Control wire required Six conductor

Size: 190 x 210 x 85 mm / 7,5" x 8,3" x 3,4"

Net weight: $\leq 1.0 \text{ kg} / 2.2 \text{ lbs.}$

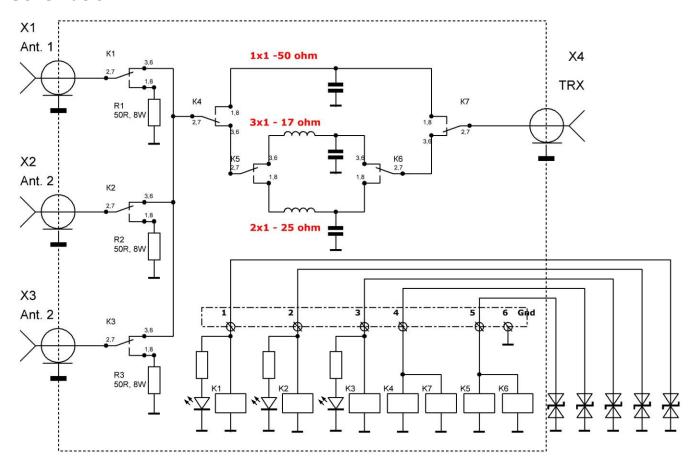


^{*} Subject to change without notice

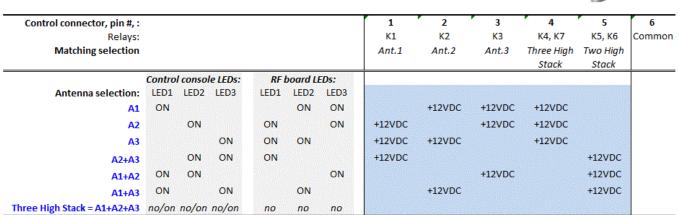
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Schematic:



Truth table:



PCB: SM3-3kW-B-v2

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