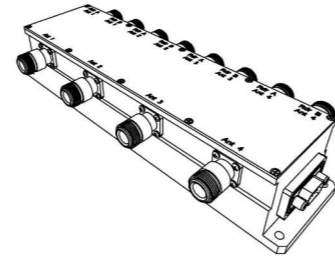


The Kathrein Redundancy Switch helps to increase the reliability and stability of state of the art ITS tolling solutions.

The integrated switching network allows to connect a main and a backup RFID reader to the installed set of antennas.

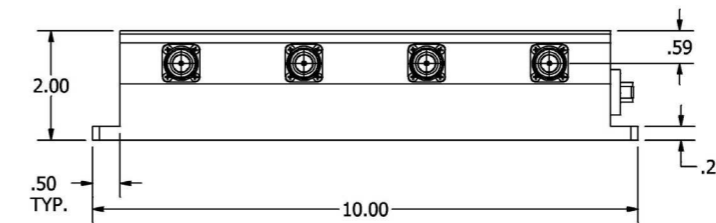
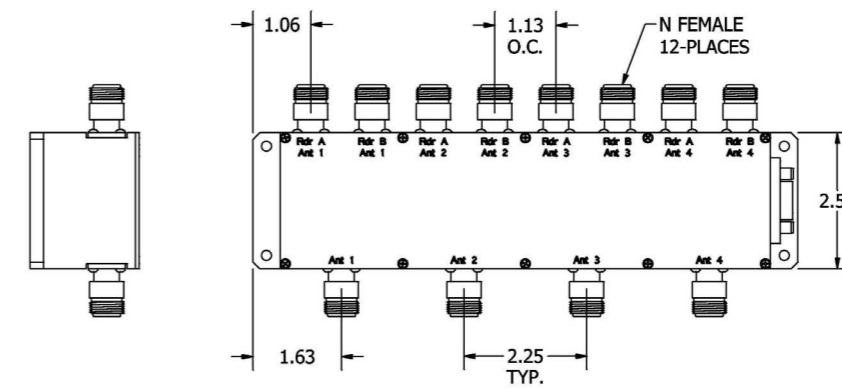
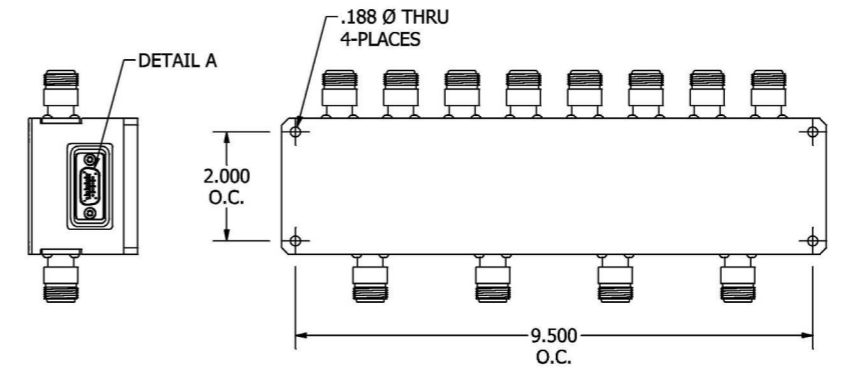
It can be easily connected and integrated into the existing lane controller or roadside unit.



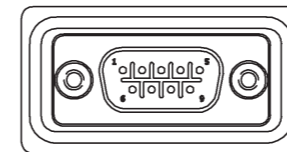
General Specifications

Type		R-RFS 4P2T RF Redundancy Switch
Order No.		52010472
Frequency range	[MHz]	DC-1000
Configuration		4P2T Reflective Redundancy Switch
Impedance	[Ohms]	50 nominal
VSWR up to 500 MHz up to 1000 MHz		max. 1.2:1 max. 1.3:1
Insertion loss up to 500 MHz up to 1000 MHz	[dB] [dB]	max. 0.5 max. 0.8
Isolation up to 500 MHz up to 1000 MHz	[dB] [dB]	max. 70 max. 60
Switching speed	[ms]	10 milliseconds maximum
RF Input power		10 watts average maximum
Control		TTL „low“ (0-0.8V) for COM to J1 TTL „high“ (2.0-5.0V) for COM to J2
DC supply	[Vdc]	+20 to +28 @ 150 mA maximum
DC connector		Water-proof DE-9P
RF connector		N female
Operating temperature range	[°C]	-40 to +85
Environmental		IP66 rated
Physical size	[mm]	250 x 100 x 50

Dimensions



NOTES:
Rdr A PORTS = N.C.
Rdr B PORTS = N.O.
ALL PORTS SWITCH IN UNISON



DETAIL A
DE-9P

PIN	FUNCTION
1	TTL CONTROL
2	NO CONNECTION
3	NO CONNECTION
4	NO CONNECTION
5	NO CONNECTION
6	NO CONNECTION
7	NO CONNECTION
8	+12 Vdc
9	GROUND