A-SR-1032 PATCH ANTENNA FOR 24 GHZ RADAR APPLICATIONS

A-sR-1032 is a patch antenna with one transmit and two receive antennas on a multilayer PCB. The antenna feeding network is on the backside of the PCB covered by a shielding cap. The antenna has three coaxial connectors of RPC-2.92 type.

Technical Parameters:
3-dB antenna characteristics and antenna gain
Rx1: 110 deg Azimuth, 23 deg Elevation, 9 dBi gain
Rx2: 110 deg Azimuth, 23 deg Elevation, 9 dBi gain
Tx: 90 deg Azimuth, 25 deg Elevation. 10 dBi gain

Antenna Gain (w/o Housing), f= 24.125GHz, 0° Elevation
Antenna Gain (w/o Housing),
f = 24.125GHz, 0° Azimuth

Phase-Difference between Rx1 and Rx2 (f = 24.125 GHz, Elevation = 0°)

Antenna Return Loss w/o Housing,
Reference: K-Connectors
DIMENSIONS

2.9 mm Ø
60.5 mm
68 mm
75 mm
59 mm
17.9 mm

24 GHZ FMCW RADAR APPLICATIONS:

A-sR-1032 connected to sR-1030

sR-1200 with integrated patch antenna