

# Microwave solid state

## parametric amplifiers

book 1 part 8

Type No.	Description	Frequency Band	Gain (dB)	Noise Figure (dB)	Bandwidth (MHz)	Tuning Range (GHz)
CL9010	Single diode parametric amplifier with klystron or Gunn pump.	S	20	3.0	15	2.7 to 3.1
CL9022	Parametric amplifier with Gunn pump.	S	17	2.8	15	2.7 to 3.1
CL9070	Packaged parametric amplifier in temperature stabilised box, Gunn pump.	L	17	2.0	23	1.07 to 1.11

## doppler modules

Type No.	Description	Centre Frequency (GHz)	Power Output (mW)	Typical Output Voltage ( $\mu$ V)
CL8960	Doppler twin cavity modules for volumetric presence detection, industrial process control, proximity switching and similar applications.	10.687	8	40
CL8960U		10.687+3MHz	8	40
CL8960L		10.687-3MHz	8	40
CL8962		9.470	8	40
CL8963		10.525	8	40
CL8964		9.900	8	40
CL8965		10.565	8	40
CL8966		10.450	8	40
CL8967		10.365 $\pm$ 15MHz	8	40

## radar traffic sensors

Type No.	Description	Centre Frequency (GHz)	Power Output (mW)
CL8880N	Doppler radar with direction sense, designed to operate in conjunction with portable traffic light control systems	10.587	5
CL8880BN	As CL8880N but packaged for mounting on top of traffic light head.	10.587	5
CL8880BNC	As CL8880BN but with supply and signal lines passing through mounting foot to traffic light head.	10.587	5

## horn antenna

Type No.	Frequency Range (GHz)	Gain (dB)	Beam Angle (both planes) (deg)
ACX-01A	9 to 11	16	30