



Specification

Super heterodyne AM rec	eivei	r		
 Frequency 	:	400 KHz ~ 1.5MHz		
 Intermediate frequency 				
 Output IF frequency 	:	455 Khz adjustable		
• IF filter	:	Dual tune LC		
 RF amplifier with variable 	e gair	1		
Mixer (frequency convert	er)			
 Output frequency 	:	455KHz adjustable		
 Band pass filter 	:	455 KHz center frequency		
Local oscillator				
		Sine wave		
		900KHz ~ 2.1MHz		
 Output impedance 	:	Adjustable from 0 to 2Vp-p		
1st IF and 2nd IF amplifier				
 Central frequency 	:	455 KHz		
 Load impedance 	:	Variable R-L-C		
• Gain	:	40dB with automatic gain control		
Diode envelope detector				
• Detection of the positive and negative envelope with variable RC filter DSB				
Product detector				

 Operating frequency 	:	Adjustable from 400 KHz ~ 500 KHz SSB
 Input amplitude 	:	1Vpp

Audio output

- Amplifier with speaker
- Audio amplifier gain 20dB :
- Receiving media
- Switch faults
- 4 switch faults are provided on board to study different effects on circuit

Experiments

- Study of DSB, SSB reception using envelope diode detector and product detector
- Study of image frequencies
- Study of adjustment of receiver tuned circuits
- Voice reception using DSB/ SSB AM receiver (super heterodyne receiver)

Note: Specifications are subject to change.

- C **Tesca Technologies Pvt. Ltd.** IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
- Hear Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,

°. Tel: +91-9829132777; Email: info@tesca.in, tesca.technologies@gmail.com [™] Website: www.tescaglobal.com