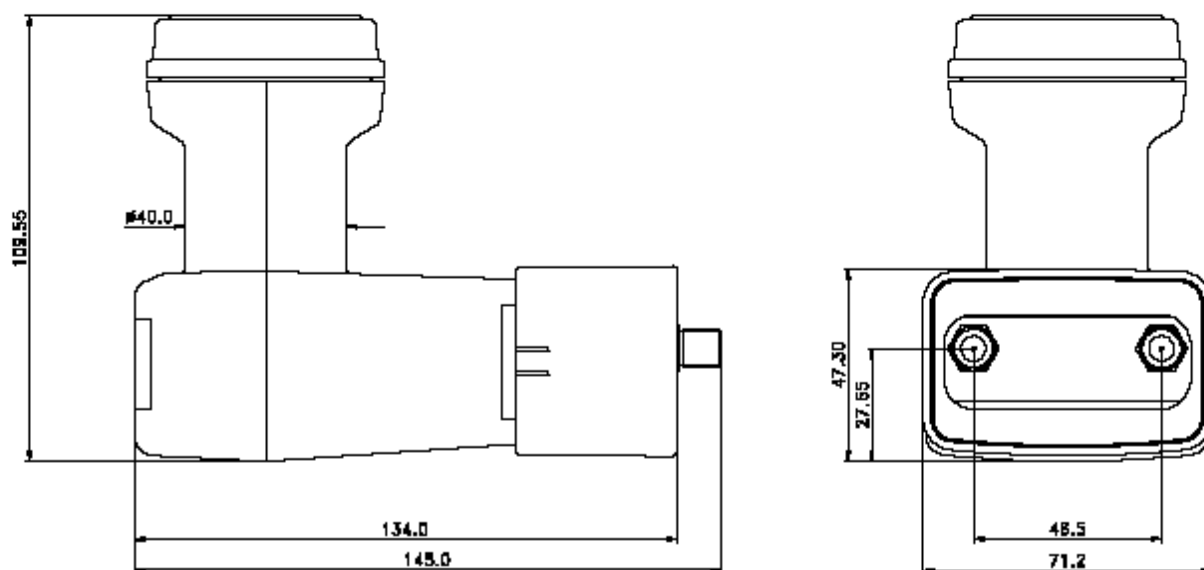


# Specifications

## Universal Twin LNB: ZKF- J22N

		Low Band	Hi Band
1. Input Frequency Range		10.7 ~ 11.7 GHz	11.7 ~ 12.75 GHz
2. Output Frequency Range		950 ~ 1950 MHz	1100 ~ 2150 MHz
3. L.O. Frequency		9.75 GHz	10.6 GHz
4. Noise Figure		0.7 dB (Typ.)	
5. F/D Ratio		0.6	
6. Input Reflector Type		Offset	
7. Cross Pol. Isolation		20 dB (Min.)	25 dB (Typ.)
8. Conversion Gain		50 dB (Min.)	62 dB (Max.)
9. Gain Flatness		±0.5 dB / 27 MHz	
10. L.O. Frequency Stability	( 25 °C ) ( -30 °C ~ 60 °C )	±1 MHz ±3 MHz	
11. L.O. Phase Noise	( 1 KHz Offset ) ( 10 KHz Offset ) ( 100 KHz Offset )	- 60 dBc/Hz - 80 dBc/Hz - 100 dBc/Hz	
12. Image Rejection		40 dB (Min.)	
13. Output Power (at 1dB Gain Compression Point)		0 dBm (Min.)	
14. Harmonic Distortion On InBand		- 58 dBm (Max.)	
15. Output Return Loss		7.5 dB	
16. Output Connector		75Ω F Type (Female)	
17. D.C. Supply Voltage		11.5 ~ 19 V	
18. D.C. Current Consumption		220 Ma (Typ.)	250 mA (Max.)
19. Polarity Switching Voltage		Vertical: 11.5 ~ 14.2 V Horizontal: 15.8 ~ 19 V	
20. Band Switching	Low Band Hi Band	0 KHz 22 KHz ± 4 KHz continuous tone signal **	
21. Operating Temperature		- 30°C ~ 60°C	

### Mechanical Drawing



Unit: mm.

\*\* This tone control signal should meet Astra recommendation.  
Specifications are subject to change without notice.

Revised Date : Feb. 06, 2001