

U290

Fixed translation UHF Upconverter single channel

INPUT SPECIFICATION		Options
1. Frequency range:	70 ± 15MHz	
2. Connector:	BNC	
3. Impedance:	50Ω	
4. Return loss:	15dB typical	
OUTPUT SPECIFICATION		
5. Frequency range:	290 to 320MHz	
6. Connector:	N-type	BNC, SMA
7. Impedance:	50Ω	
8. Return loss:	15dB typical	
9. 1dB compression point at full gain:	+15dBm	
10. Third order intercept at full gain:	+25dBm	
TRANSFER CHARACTERISTICS		
11. Gain:	0 to +20dB,	adjustable via front panel potentiometer
12. Gain ripple: over input band:	≤1dB p.t.p.	
13. Gain stability, 0°C to 50°C:	±1dB	
14. LO frequency:	235MHz	(locked to 10MHz OCXO)
15. Frequency stability, 0°C to 50°C:	2 x 10 ⁻⁷	
16. Noise figure (full gain):	<20dB	
Spurii		
17. Image rejection:	>75dB	
18. In-band spurii (at 0dBm output):	<-60dBc	
19. LO leakage to output (235MHz):	<-50dBm	
20. Out of band spurii (excluding harmonics):	<-60dBc	at +7dBm output
PHASE NOISE		
21. 10Hz:	<-55dBc/Hz	
22. 100Hz:	<-75dBc/Hz	
23. 1kHz:	<-90dBc/Hz	
24. 10kHz:	<-95dBc/Hz	
25. 100kHz:	<-105dBc/Hz	
26. 1MHz:	<-115dBc/Hz	
27. Mains related:	<-60dBc	
MISCELLANEOUS		
28. Power supply:	90 to 250V AC, 50/60Hz, 20VA	
29. Mechanical:	1U 19" frame, 400mm deep	
30. Temperature:	Operating: 0° to 50°C Storage: -40° to 85°C	
31. Relative humidity:	Operating: 0 to 90% Storage: 0 to 95%	
32. Summary alarm:	NO and NC dry relay contacts via rear mounted connector	
33. Summary alarm indication:	Front panel LED	
34. Remote control:	NA	