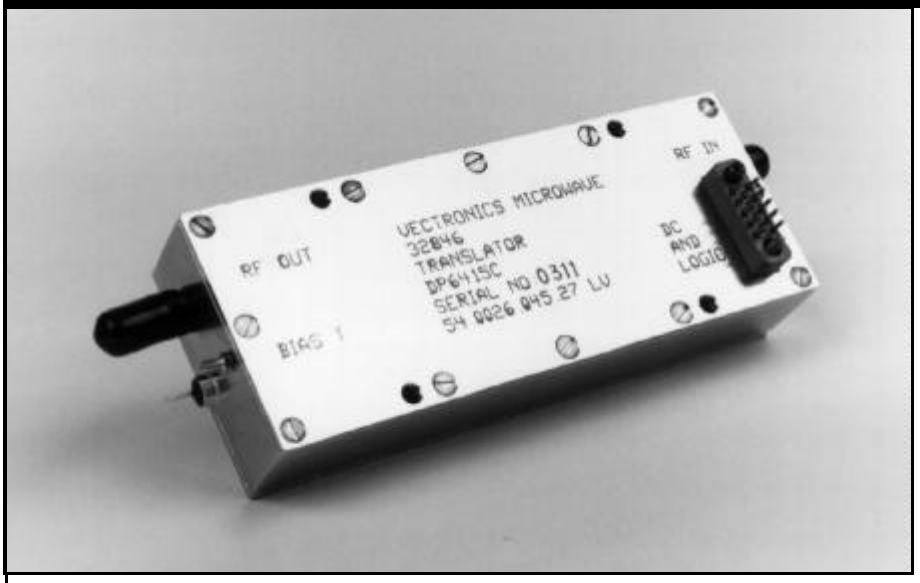
Four-Bit Octave-Band Digital Frequency Translators



Typical Specifications

Part Number	DP640.75-67A	DP641.5-67A	DP643.0-67A	DP646.0-67A
Frequency Range	.5 - 1 GHz	1 - 2 GHz	2 - 4 GHz	4 - 8 GHz
Translation Range	0 to 0.5 MHz			
Translation Loss Max.	3.5dB	3.5dB	4.0dB	4.5dB
Carrier & Sideband Suppression, Min.	20dB	20dB	18dB	18dB
Return Loss, Min./typ.	10/14dB	10/14dB	10/14dB	8/14dB
Video Leakage, Max.	100mV			
RF Input Power, Max.	+ 30dB			
DC Power, (V ± 5%), typ.	+5V/220mA, -15V/60mA			
Translation Control Options (see reverse)	A, B, or C			
Up/Down and Enable Controls	TTL. 1 line each			
RF Connectors	SMA (F)			
DC and Logic Connector	DA-15P			
Operating Temperature	-30°C to +70° C			

Description

Digital Frequency Translators shift the frequency of an RF input signal up or down in response to binary TTL square-wave control signals, as shown in the timing diagram on the reverse of this sheet. This frequency shift or translation simulates natural Doppler shift produced when a transmitter and a receiver are in motion with respect to each other.

Applications

- Radar Simulation
- ECM Systems

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