

DTO 2-18 GHz Model 7735A Data Sheet



GENERAL DESCRIPTION

The 7735A Model DTO/Synthesizer module is a compact, broadband frequency source, covering the frequency range of 2 to 18 GHz. The unit features frequency settling times below 1 uSec, while the ovenized internal VCO's assures repeatability under ambient temperature conditions.



KEY FEATURES

- Fast Tuning
- Low Post Tuning Drift
- Low Spurious
- Heaters for Temperature Stabilization
- Heater Power Control Switch

KEY FEATURES

- Reverse and Transient Protection
- Phase Locked Loop for High Stability
- Latched Data
- External Ref.
- Built-in Testers

GENERAL SPECIFICATIONS

Frequency Range	2-18 GHz		
RF Output Power	8 ÷ 13 dBm		
RF Power Variations	+/- 1 dBm		
Output Impedance	50 Ohm		
Load VSWR	1.5:1 Max		
Harmonics	-20 dBc		
Spurious	-60 dBc		
Power Requirements	+15VDC/1.7A, Max. (In-Rush current 4A Typ.) -15VDC/350mA, Max. 28VDC/3A for Heaters		
Operating Temperature	0 to 50 °C		
Non Operating Temp	-40 to 80 °C		
Humidity	95% No Condensation		
Post Tuning Drift (in 30 sec.)	1.5 MHz	3 MHz	6 MHz
Tuning Control	16 bits		

Phase Noise	@10 KHz	-54 dBc/Hz	-46 dBc/Hz	-38 dBc/Hz
	@100 KHz	-80 dBc/Hz	-71 dBc/Hz	-63 dBc/Hz
	@1MHz	-103 dBc/Hz	-95 dBc/Hz	-87 dBc/Hz
Internal Band sel.	5 bits			
Frequency Pulling Max	+/- 100 KHz			
Frequency Pushing Max	+/- 200 KHz/V			
Residual FM	25KHz to 100 KHz* (Band dependent)			
Connectors	D-37 - Data, Control D-25 - Power			
SMA	RF output, Ext Ref input, Ext. RF input			
Dimensions	186 x 115 x 50 (mm)			
	<u>2-6 GHz</u>	<u>6-12 GHz</u>	<u>12-18</u>	
<u>GHz</u>				
Freq. Resolution	< 200 KHz	400 KHz	800 KHz	
Accuracy	< 1MHz	2 MHz	4 MHz	
Freq. Settling time (in 1Usec.)	1MHz	2 MHz	4 MHz	

Note: Specifications are subject to change without notice.



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