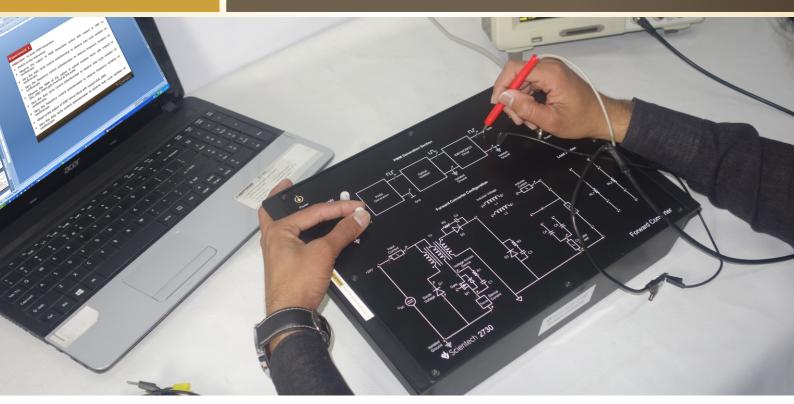
💖 Scientech

Forward Converter



Scientech 2730 is a compact and user friendly Learning platform which is very useful for students to understand the concept of PWM generation technique, and Forward Converter topology on various load configurations. It is also helpful for understanding the Converter output on various filter configurations. Platform explains PWM generation technique, Forward converter operation, and power isolation circuit to measure the isolated output.

Features

- Easy to operate & understand
- Optically isolated PWM generation with Gate driver
- Inbuilt isolation section for measurement of the signal
- Test Points provided at output of each section to measure the signals

Scope of Learning

• To study PWM generation

Designed and Manufactured in India by -

• To study Forward Converter with different filter components and loads

Technical Specifications

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Input DC Voltage	:	24V/1A
PWM Frequency Variation	:	8KHz to 92KHz
Duty Cycle Variation	:	8% to 35%
Load Assembly	:	RL1 & RL2 (75Ω & 75Ω)
Power Isolation Section	:	Single channel
Power device	:	MΩSFET IRF450
MOSFET/IGBT Driver	:	MC33153
Inductors	:	L1 (91µH), L2 (174 µH)
Capacitors	:	C4 (1000µF/63V)
		C5 (470µF/63V)
Test Points	:	16 nos.
Banana Socket insert 2mm	1 :	31 nos.
Product Tutorial	:	Ωnline on www.ScientechLearning.com
Product Tutorial Dimensions (mm)		W 326 x D 252 x H 52
	:	-
Dimensions (mm)	:	W 326 x D 252 x H 52
Dimensions (mm) Power Supply	::	W 326 x D 252 x H 52 110V - 260V AC, 50/60Hz
Dimensions (mm) Power Supply Weight	::	W 326 x D 252 x H 52 110V - 260V AC, 50/60Hz 1.5Kg (approximately)
Dimensions (mm) Power Supply Weight Operating Conditions	::	W 326 x D 252 x H 52 110V - 260V AC, 50/60Hz 1.5Kg (approximately) 0-40°C, 85% RH
Dimensions (mm) Power Supply Weight Operating Conditions	::	W 326 x D 252 x H 52 110V - 260V AC, 50/60Hz 1.5Kg (approximately) 0-40°C, 85% RH 2mm Patch Cord 16''-3nos.
Dimensions (mm) Power Supply Weight Operating Conditions	::	W 326 x D 252 x H 52 110V - 260V AC, 50/60Hz 1.5Kg (approximately) 0-40°C, 85% RH 2mm Patch Cord 16''-3nos. 2mm Patch Cord 8'' -5nos.



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