46917 is a compact and user friendly learning platform which is very useful for students to understand the concept of PWM generation technique, and Buck-Boost Converter topology on various load configurations. It is also helpful for understanding the converter output on various filter configurations. Platform explains PWM generation technique, Buck-Boost Converter operation, and power isolation circuit to measure the isolated output.

Features

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

Object

1. To study PWM generation
2. To study Buck-Boost Converter with different filter components and loads

Technical Specifications

Input DC Voltage	:	24V/1A
PWM Frequency Variation	:	1 KHz to 20 KHz
Duty Cycle Variation	:	20% to 60%
Load Assembly	:	RL1 & RL2 (75Ù & 75Ù)
Power Isolation Section	:	Single channel
Power device	:	MOSFET IRF450
MOSFET/ IGBT Driver	:	IR2117
Inductors	:	L1 (5.7 µH); L2 (3.8 µH); L3 (1.5mH); L4 (354µH)
Capacitors	:	C1 (1000µF/63V); C2 (470µF/63V) C3 (1000µF/63V); C4 (470 µF/63V)
Test Points	:	23 nos.
Banana Socket	:	39 nos.
Dimensions (mm)	:	W 326 x D 252 x H 52
Power Supply	:	110V - 260V AC, 50/60Hz
Weight	:	1.5Kg (approximately)
Operating Conditions	:	0-40oC, 85% RH
Included Accessories	:	2mm Patch Cord 16''-3 nos. 2mm Patch Cord 8'' -9 nos. BNC to Test Probe-1 no. BNC to BNC Cable-1 no. Mains Cord.-1 no.

Note: Specifications are subject to change.

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