



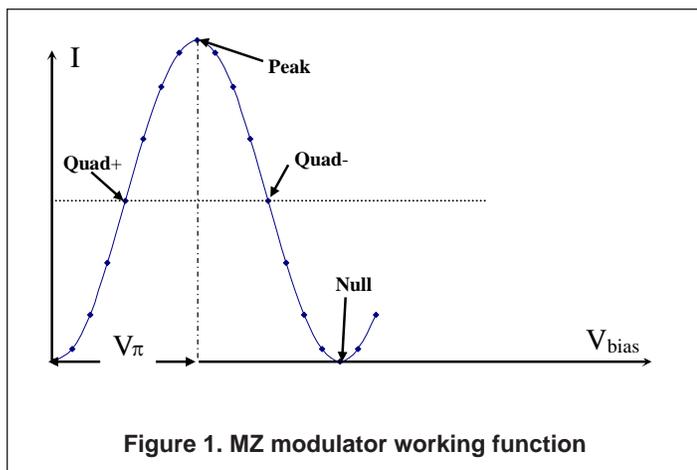
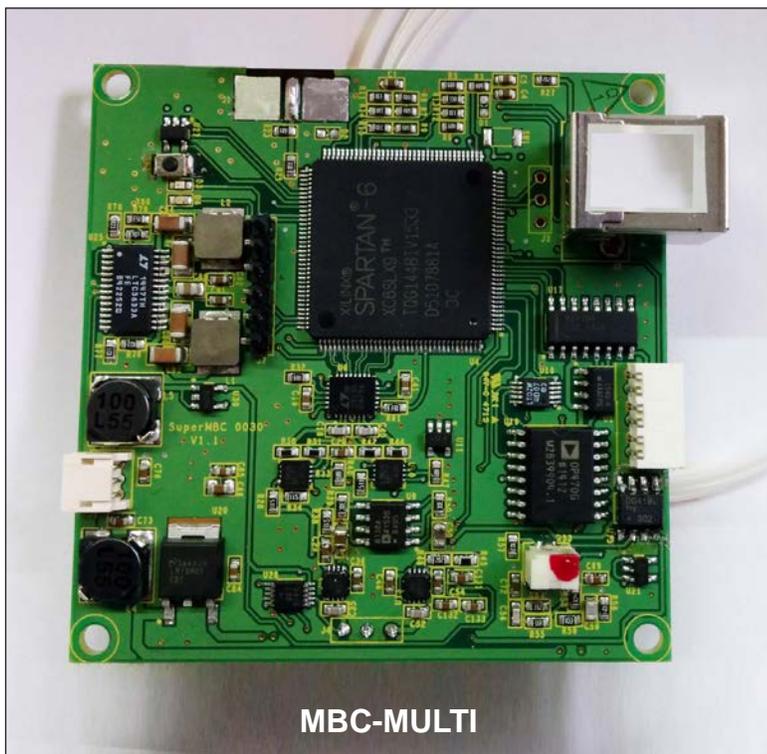
MODULATOR BIAS CONTROLLER - MULTI

Features

- For DPMZ IQ modulator SSB and its extended applications including Peak, Peak, Quad for the three modulators
- Three modulators can be controlled by one controller
- User adjustable pilot tone amplitude
- Locking slop can be switched for the three bias individually. Locking points around null, quad can be fine-tuned
- Calibration off mode for quick system setup in locking mode
- One PD is integrated
- USB interface
- GUI is included, user can stop pilot tone in manual mode
- For single sideband application or applications with two or three individual modulators
- RS232 interface provided if required.
- Low profile (2.53" x 2.57" x 0.65")
- Access for external photo-detector

Product Description

The Modulator Bias Controller Multi is designed to be used with DPMZ IQ modulators for single sideband and its extended applications.



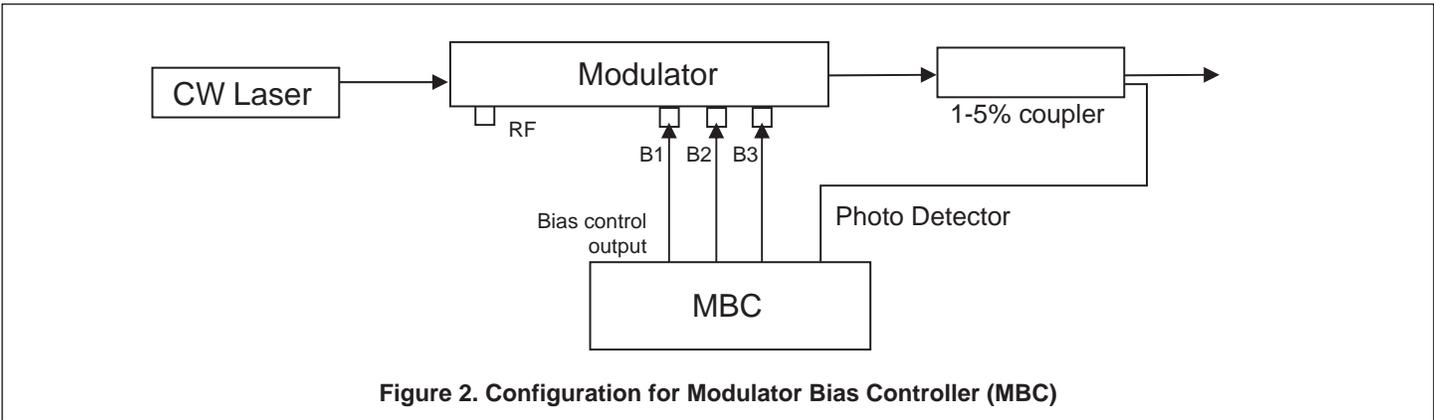


Figure 2. Configuration for Modulator Bias Controller (MBC)

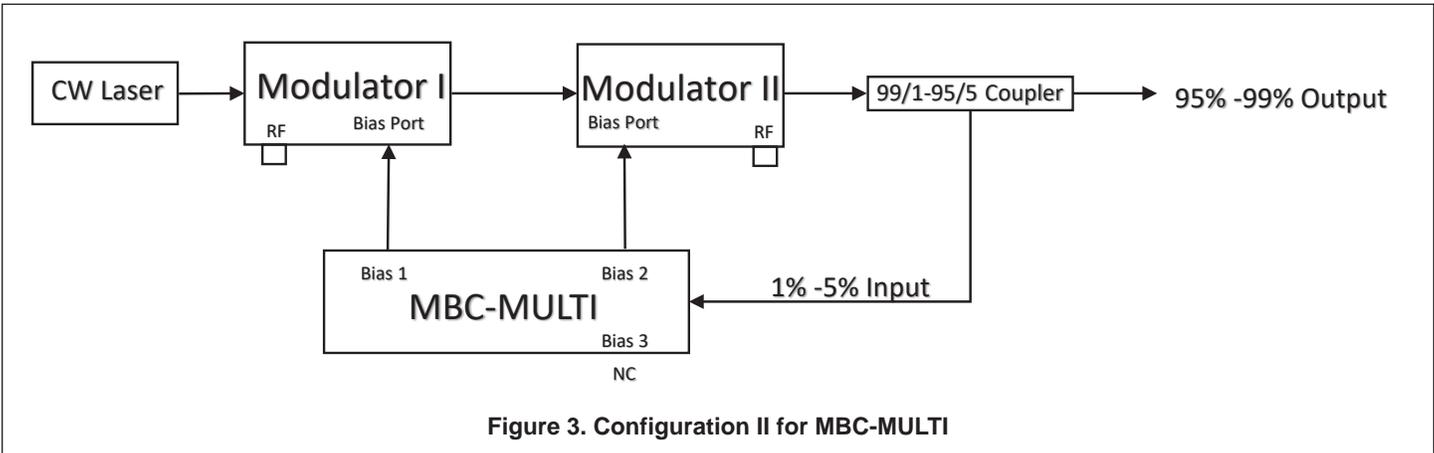


Figure 3. Configuration II for MBC-MULTI

Specifications

Parameters	Min.	Typ.	Max.
Optical Performance			
Detector Input Power ¹ (dBm)	-25		-10
Optical Wavelength (nm)	1000–1650		
Electrical Performance			
Bias Voltage (V)	-12		12
Null Mode Extinction Ratio ² (dB)		25	40
Locking Slope	Positive or Negative		
Locking Mode	Peak/Null, Quad		
Pilot Tone			
Peak-to-Peak Voltage (Vpp)	Adjustable		
Pilot Tone Frequency (QUAD) (Hz)		500, 1000	

Parameters	Min.	Typ.	Max.
Power Supplies			
DC Positive Power Voltage (V)	14.5	15	15.5
DC Negative Power Voltage (V)	-15.5	-15	-14.5
DC Positive Power Current (mA)		145	
DC Negative Power Current (mA)		80	
General			
Operating Temperature (°C)	0–70		
Storage Temperature (°C)	-40–85		
Dimension (inch)	2.53 x 2.57 x 0.65		
Weight (lb)	0.2		

¹ For a given input, detection power refers to the coupled optical power to the photodiode of DPMZi-MBC when the modulator output is at its minimum attenuation (The detection power does not describe the detected power at locking status).

² In this case, the modulator output power was greater than 0 dBm. 1% coupler was used. The extinction ratio will be close to but not exceed the extinction ratio of the modulator.

Part Number

MBC-MULTI-PP-X

PP = Pigtailed Photodiode code:
 PD = Pigtailed photodiode included
 00 = Pigtailed photodiode not included
 Leave connector code blank

X = Connector code:
 3U = FC/UPC
 3A = FC/APC
 SCU = SC/UPC
 SCA = SC/APC
 LCU = LC/UPC
 LCA = LC/APC