

Belcom Microwave's FLAME series of medium power BUCs provides a groundbreaking solution for increased speed and bandwidth.

The FLAME series was crafted with 20 years of engineering experience and is backed by a dedicated support team.

The Belcom team incorporates innovative design with efficient, high turnover manufacturing processes to provide top-caliber products with impressive lead times.

Designed to be simple and robust, FLAME series delivers top performance and is cost effective and reliable.

FLAME Highlights

- Competitive pricing
- Output power: 10W, 20W, 25W, 40W, 50W
- Available in C, Extended C and Palapa Bands
 BLWC BUCs covering Standard C and Palapa bands
- Covered by a full three-year warranty plan
- 21 day repair cycle guarantee
- Operating Voltage: AC or DC
- Operating temperatures: -40°C to +55°C
- Synthesized L.O.

FLAME Models Overview

Model	Output	Operating	Nominal	Power Consumption(W)		Weight(Kg)		Dimensions (L x W x H, mm)
	Power (W)	Voltage	Gain (dB)	DC	AC	DC	AC	
BLX-10	10	48V / 24V	60	80	NA	6.5	NA	268x212x110
BLX-20	20	48V / AC	63	170	185	7.0	10.2	DC: 268x212x110, AC:268x228x195
BLX-25	25	48V / AC	63	220	240	7.0	10.2	DC: 268x212x110, AC:268x228x195
BLX-40	40	48V / AC	66	380	400	11.5	11.5	268x228x245
BLX-50	50	48V / AC	67	380	400	11.5	11.5	268x228x245

(See detailed outline drawing in Belcom Microwaves website)



Electrical

Input impedance	ce		50Ω			
Input VSWR		2:1				
Available Band	ls			NEW!		
	C-Band	Ext.C	Palapa	Wide C		
Input frequency	950-1525MHz	975-1275MHz	1075-1435MHz	950-1825MHz		
Output frequency	5.85-6.425GHz	6.725-7.025GHz	6.365-6.725GHz	5.85-6.725GHz		
L.O frequency	4.900GHz	5.750GHz	5.290GHz	4.900GHz		
Output power (at 1 dB GC)	See ta	ble overleaf			
Gain (Nominal)			See table overleaf			
Gain Flatness						
	Over any 1 MHz band			±0.2 dB max		
	Over any 36 MF	Hz band	nd ±0.75 dB max			
Over full Band			4 dB PTP max			
Gain stability over temperature (at constant frequency) 4 dB PTP max						
Reference signal - External 10MHz			-10dBm to	+7dBm		
Spectrum sense			Non Inverti	ng		
Frequency accuracy (PPM)			Same as Reference			
Phase Noise						
At 1 KHz offset			75 dBc/Hz			
At 10 KHz offset			81 dBc/Hz			
At 100 KHz offset			95 dBc/Hz			
Leakage and S	purious Signal	(Up to 1dB comp	pression point)			

anu	spurious signais (op to tub compres	sion point)			
	In-band	-55 dBc max, -60dBc typical			
	Harmonics	-20 dBm max			
	In RX band	-140 dBm/4KHz max			
	Wideband noise in RX band	-160 dBm/Hz max			
	3rd order intercept point (IP3)	P1dB +7 dB min			
,	The unit will not oscillate under any condition of load,				
	temperature or DC supply				

Protection

Stability

-Thermal runaway protection

-No damage by any combination of load reflections

-DC supply spike protection

-Missing 10MHz reference shuts transmitter to -60dBc min

Power supply voltage (at the input of the BUC)

DC	37-60V (18-30V optional)
AC	90-250V (50-60 Hz)
Power consumption	See table overleaf

Mechanical

IF + reference input.	N type (female)
RF output	CPR137 grooved
Weight	See table overleaf
Finish	White polyurethane paint

Specifications are subject to change without prior notice

Environmental

Operating Temperature	-40°C to +55°C
Sealing	Moisture sealing by O-ring
	Weather-proof
Vibration	5-350Hz 0.0015g2/Hz
	350-500Hz -6dB/oct
	500Hz 0.00074g2/Hz
Shock	10g @ 10m s(half sine)

How To Order

BLX-P-V-D-C

X- Frequency Band

C- C Band PA- Palapa IN- Ext. C (Insat) WC-Wide C (Standard C and Palapa)

P- Output Power

10 - 10W 20 - 20W 25 - 25W 40 - 40W 50 - 50W

V- Operating Voltage

24 - 18-30V (10W only) 48 - 37-60V

AC - AC

D- Input Power Connector

I- DC Supply via IFL Cable

E- DC/AC via external connector

C- M&C Option

Blank -No M&C (Standard)

C- M&C via Ext. Connector (RS-485)

(Optional)

