

Belcom's SPARK series of low power BUCs have been trusted by the world's largest VSAT companies for over 20 years and has a proven reputation for reliability.

Built to be robust and reliable, SPARK BUCs are rugged enough to withstand extreme outdoor conditions. Belcom's high-level development experience and its large volume manufacturing capabilities, provide clients with unmatched cost savings.

SPARK products are covered by a full two-year warranty and are backed by a dedicated service team that ensures a full repair cycle within no more than 21 days.

SPARK Highlights

 Available in C, Extended C and Palapa bands



- BLWC BUCs covering Standard C and Palapa bands
- Output power: 1W, 2W, 3W, 5W, 8W
- Covered by a full two-year warranty plan
- Guaranteed 21-day repair cycle
- Low power consumption
- Lightweight 1.85 Kg

SPARK Models Overview

	Model	Output Power (W)		Nominal Gain	Power Consu	Dimensions
		(W)	(dBm)	(dB)	(W)	(L x W x H, mm)
,	mBLX-1	1	30	53	16	215.8 x 135.8 x 53.0
	mBLX-2	2	33	55	28	215.8 x 135.8 x 53.0
	mBLX-2-LP	2	33	55	16	215.8 x 135.8 x 53.0
	mBLX-3	3	34.5	55	28	215.8 x 135.8 x 53.0
	mBLX-5	5	37	58	44	215.8 x 135.8 x 53.0
	mBLX-8	8	39	60	55	215.8 x 135.8 x 61.5



Electrical

input impedand	ce	/5\\Omega (50\\Omega optional) input			
VSWR		2:1			
Available Band	ds			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 Table overleaf			
Gain (Nominal)		See Table overleaf			
Gain Flatness					

	Over any 1 MHz	band	±0.2 dB max
	Over any 36 MHz	z band (25°C)	±0.75 dB max
	Over full Band		4 dB PTP max
Gain stability ove	r temerature (at co	onstant frequency)	4 dB PTP max
Reference signal	- External 10MHz		-10dBm to +7dBm
Spectrum sense	Non Inverting (In	verting-Option)	
Frequency accura	icy (PPM)	Same as Reference	e

Phase Noise

At 1 KHz offset	75 dBc/Hz
At 10 KHz offset	81 dBc/Hz
At 100 KHz offset	95 dBc/Hz

eakage and Spurious Signals (Up to 1dB compression point)

Leakage and Spurious Signals (Op to 10b compression 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		
Stability	The unit will not oscillate under any	condition of load,		
	temperature or DC supply.			
Protection				

-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) +15 to +26V DC

Power consumption See table overleaf

Specifications are subject to change without prior notice

Environmental

Operating Temperature	-40°C to +60°C
Sealing	IP 54
Vibration	5-350Hz 0.0015g2/Hz
	350-500Hz -6dB/oct
	500Hz 0.00074g2/Hz
Shock	10g @ 10m s(half sine)

Mechanical

(See detailed outline drawing in Belcom Microwaves website)

oe (female)
pe optional)
L37 grooved
Kg (1, 2, 5W)
(g (8W)
e polyurethane

How To Order

mBLX-P-C

X- Frequency Band

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

P- Output power @ 1 db GC

1 -	1W
2 -	2W
3 -	3W
5 -	5W
8 -	8\//

C - Input Connector

•		
	F type (f)	
	N Type (f)	
social configuration	 المحالمين مر	_

Special configurations are available

