



## Description

BF 108 combiner is designed to combine LTE800 & EGSM900, GSM1800, UMTS2100 and LTE2600 bands of three operators to three output ports. Equipped with 4.3-10 connectors, it features with low insertion loss, high isolation and low PIM interference.

## Electrical Specifications

Parameter		Value				Units
Number of input ports (I/P)		12				#
Marking	Operator 1	#1 698-960	#1 1710-1880	#1 1920-2170	#1 2500-2690	
	Operator 2	#2 698-960	#2 1710-1880	#2 1920-2170	#2 2500-2690	
	Operator 3	#3 698-960	#3 1710-1880	#3 1920-2170	#3 2500-2690	
Operating frequency bands		698 – 960	1710 – 1880	1920 – 2170	2500 – 2690	MHz
Number of output ports (COM)		3				#
Marking		OUT #1	OUT #2	OUT #3		
Operating frequency bands		698 – 960 & 1710 – 1880 & 1920 – 2170 & 2500 – 2690				MHz
Insertion loss	any I/P to any COM	6.5				dB max
Return loss	at any port	14				dB min
Isolation	between any two I/P in different bands	65				dB min
	between any two I/P in the same band	30				dB min
Power handling	per I/P	100 <sup>1)</sup>				W c.w. max
	aggregate	300				W c.w. max
Passive intermodulation	3 <sup>rd</sup> order with 2x 43 dBm	-150 <sup>2)</sup>				dBc max
Impedance		50				Ohm

### Notes:

- 1) Operating band 790-960 MHz is composed of 791-862 MHz and 880-960 MHz sub-bands. The corresponding ports can operate higher power, when aggregate operating power per operator does not exceed 300 Watts.
- 2) When a particular operator sub-band is narrower than half of TX to RX channel spacing than PIM products of the 3<sup>rd</sup> order can be avoided. In such a case PIM < -160 dBc at the respected operator input port.



## Mechanical Specifications

Parameter	Value
Connectors type	4.3-10 female
Dimensions	19", 3 HU
Weight	15.1 kg

## Environmental Specifications

Parameter	Value
Operating temperature	-25 ÷ +65 °C
Ingress protection	IP 40