

# Ka-band 12W BUC

## Ka-band Satcom - Count on EM Solutions



### Ka-band BUC 12W Specifications

Output Frequency	30.0 to 31GHz	Rx Band Noise Density	< -100dBm/Hz (20.2 to 21.2GHz)
Input Frequency	950 to 1950MHz or 1000 to 2000MHz	Tx Band Noise Density	< -76dBm/Hz
Sense	Non Inverting	External Reference	5MHz or 10MHz (optional)
Output Power Psat	41dBm (min)	External Reference Level	-5 to +5dBm
Linear Power	38dBm (min)	External Reference Phase Noise max	-140dBc/Hz at 1kHz
Gain	68dB	Input Power	+17VDC to +30VDC
Gain Flatness (Full Band)	±1.5dB	DC Connector	MS27466T13B04PA
Gain Flatness (36MHz Channel)	±0.3dB	Power Consumption	200W
Gain Variation (Temperature)	±1.0dB	Operating Temperature	-30 to +60°C
Input Return Loss	18dB	Weight	6kg (13lbs)
Output Return Loss	14dB	Monitor & Control	Output Power Detector Gain Control +0, -30dB, 1dB Steps Summary Alarm Connector: MS27466T11B35S
Phase Noise	-65dBc/Hz at 100Hz -75dBc/Hz at 1kHz -85dBc/Hz at 10kHz -95dBc/Hz at 100kHz -105dBc/Hz at 1MHz	Size:	264mm x 137mm x 129mm (10.4" x 5.4" x 5")
AM/PM Conversion	< 2 degree/dB at Plin	<b>Linear Power Definition (Min of)</b>	
Output Spurious	-65dBc @ Psat	(a)	Combined power resulting from two equal carriers with 2.6MHz separation at which the power in a single 3IMD product is 25dB below the combined power of the two CW signals
		or	
		(b)	Power measured at which the spectral regrowth of a half rate OQPSK modulated carrier is at least 30dB below the peak power spectral density one symbol rate removed from the carrier frequency.