

Innovative Communication Solutions

ELMTBC050HT-WN-

AM

ELEMENT 50W C-Band BUC (High

Temperature Range)

Input Frequency: W: 5.850 - 6.725 GHz Input Connector: N-Connector Input Voltage + M&C 85-265 VAC + RS-232 & Function: RS-485



KEY SPECIFICATIONS

Band	C-Band
External Ref Freq	10 MHz, -5 to +5 dBm
Input Frequency Band 1	950 - 1825 MHz
LO Frequency 1	4.9 GHz
Output Frequency Band 1	5.850 - 6.725 GHz
Output Power Rated	50W
Reference Type	Internal Reference

RF SPECIFICATIONS

Gain Flatness (over 54mhz)1.5 dBGain Flatness (over Full Band)5 dBGain Flatness (over Temperature)4 dBInput VSWR2: 1 max.Inear Gain73 dB tp.Output P1db47 dB main.over temperature)Output Spurious In Band55 dBcOutput Syurious Cont Band50 dBcOutput Syurious Cont Band95 dBc/LBOutput Syurious Cont Band95 dBc/LBPhase Noise 100kbr Zoffset Max95 dBc/LBPhase 100kbr Zoffset Max95 dBc/LBPhase 100kbr Zoffset Max96 dBc/LBPhase 100kbr Zoffset Max96 dBc/LBPhase 100kbr Zoffse				
Gain Flatness (over Temperature)4 dBInput VSWR2 : 1 max.Linear Gain73 dB typ.Output P1db+47 dBm min. over temperatureOutput Spurious In Band-55 dBcOutput Spurious Out Of Band-50 dBcOutput VSWR2 : 1 max.Phase Noise 100khz Offset Max-95 dBc/HzPhase Noise 10khz Offset Max-85 dBc/Hz	Gain Flatness (over 54mhz)	1.5 dB		
Input VSWR2 : 1 max.Linear Gain73 dB typ.Output P1db+47 dBm min. over temperatureOutput Spurious In Band-55 dBcOutput Spurious Out Of Band-50 dBcOutput VSWR2 : 1 max.Phase Noise 100khz Offset Max-95 dBc/HzPhase Noise 10khz Offset Max-85 dBc/Hz	Gain Flatness (over Full Band)	5 dB		
Linear Gain73 dB typ.Output P1db+47 dBmmin.over temperatureOutput Spurious In Band-55 dBcOutput Spurious Out Of Band-50 dBcOutput VSWR2:1 max.Phase Noise 100khz Offset Max-95 dBc/HzPhase Noise 10khz Offset Max-85 dBc/Hz	Gain Flatness (over Temperature)	4 dB		
Output P1db+47 dBm min. over temperatureOutput Spurious In Band-55 dBcOutput Spurious Out Of Band-50 dBcOutput VSWR2 : 1 max.Phase Noise 100khz Offset Max-95 dBc/HzPhase Noise 10khz Offset Max-85 dBc/Hz	Input VSWR	2 : 1 max.		
Output Spurious In Band-55 dBcOutput Spurious Out Of Band-50 dBcOutput VSWR2 : 1 max.Phase Noise 100khz Offset Max-95 dBc/HzPhase Noise 10khz Offset Max-85 dBc/Hz	Linear Gain	73 dB typ.		
Output Spurious Out Of Band-50 dBcOutput VSWR2 : 1 max.Phase Noise 100khz Offset Max-95 dBc/HzPhase Noise 10khz Offset Max-85 dBc/Hz	Output P1db	+47 dBm min. over temperature		
Output VSWR2 : 1 max.Phase Noise 100khz Offset Max-95 dBc/HzPhase Noise 10khz Offset Max-85 dBc/Hz	Output Spurious In Band	-55 dBc		
Phase Noise 100khz Offset Max -95 dBc/Hz Phase Noise 10khz Offset Max -85 dBc/Hz	Output Spurious Out Of Band	-50 dBc		
Phase Noise 10khz Offset Max -85 dBc/Hz	Output VSWR	2 : 1 max.		
	Phase Noise 100khz Offset Max	-95 dBc/Hz		
Phase Noise 1khz Offset Max -75 dBc/Hz	Phase Noise 10khz Offset Max	-85 dBc/Hz		
	Phase Noise 1khz Offset Max	-75 dBc/Hz		



CE



ELECTRICAL SPECIFICATIONS

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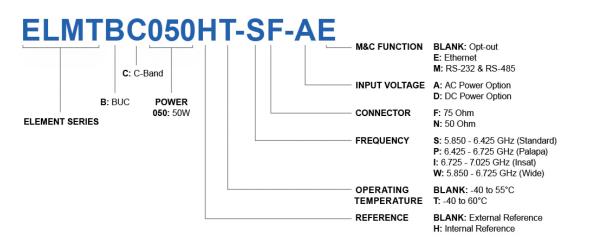
Current Consumption	310WAC max.			
Power Requirements	+85 to +265V AC			
INTERFACE SPECIFICATIONS				
Frequency Sense	Non-inverted			
IF Connector	N-Connector			
ENVIRONMENTAL SPECIFICATIONS				
Humidity	Up to 100%			
IP Rating	IP 54			
Temperature Operational	-40 to +60°C			
Temperature Storage	-40 to +75°C			
PHYSICAL SPECIFICATIONS				

Internal Function	Lock detector shuts off Tx in case of LO unlocked	
Product Dimensions (LxWxH)	220 x 195 x 183 mm	
Product Weight	7.0 kg	

LOGISTICS SPECIFICATIONS

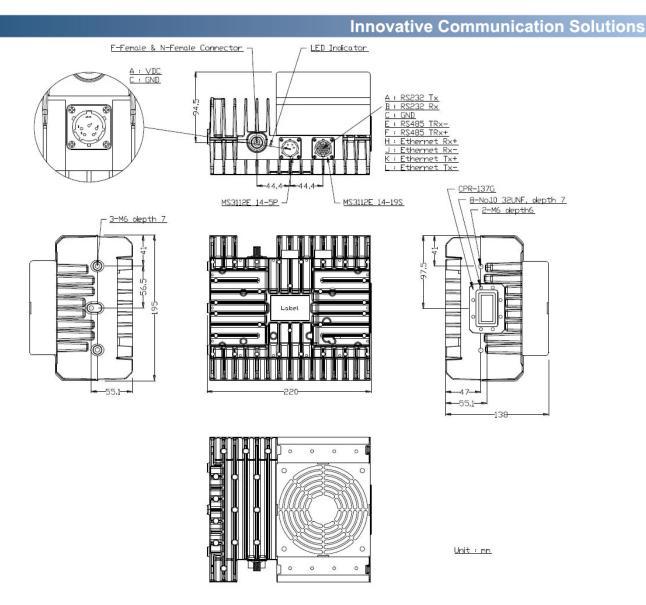
HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package
8543700000	Made in Korea	Korea	EAR99	290 x 270 x 250 mm 8.5 kg

HOW TO ORDER



MECHANICAL DIAGRAMS







Revision A

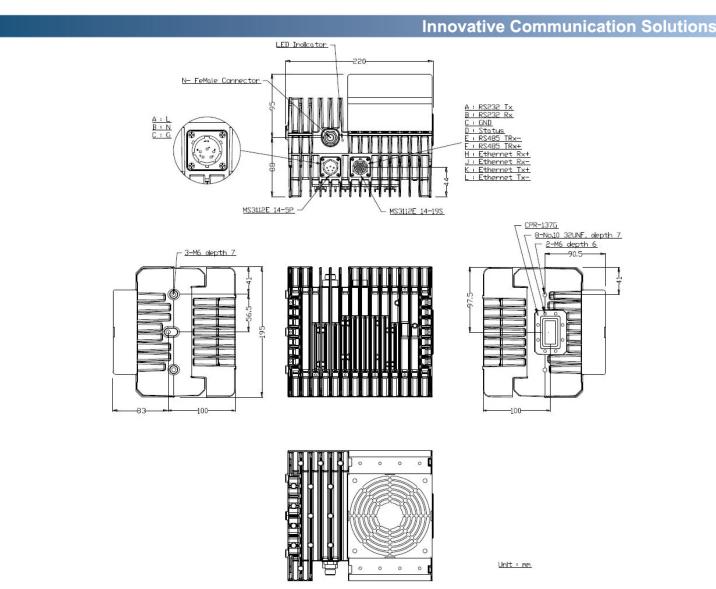


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