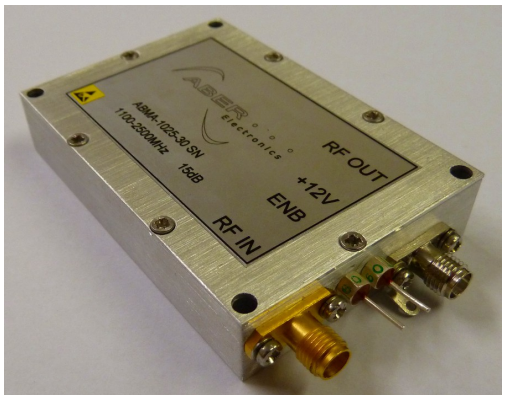
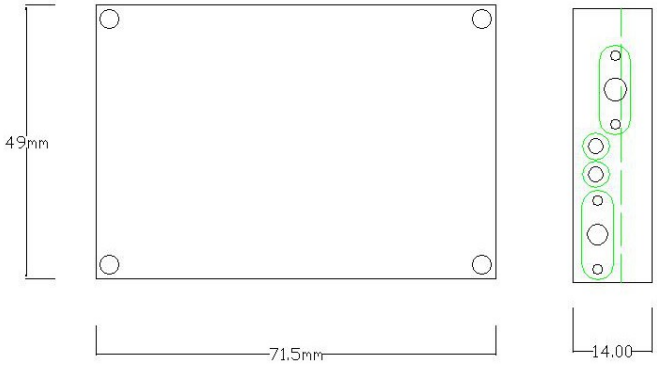
Specification





MODEL	ABMA-1025-30S
FREQUENCY RANGE:	1000-2500MHz (GAIN TUNED 1000-1500 AND 2000-2500MHz)
OUTPUT POWER:	1W COFDM OR CDMA
BANDWIDTH:	1500MHz STANDARD
DC POWER (NO RF):	12V AT 0.16A NOMINAL (11-18V OPERATIONAL)
DC POWER (+30dBm):	12V AT 0.48A NOMINAL (11-18V OPERATIONAL)
SIZE AND MASS:	71x49x14mm 85g
COOLING:	BASE PLATE COOLED
OPERATING TEMPERATURE:	0°C - +45°C (Ambient)
ENABLE:	ON/OFF 0V = OFF, + 5V = ON (TTL)

RF PERFORMANCE	
SMALL SIGNAL GAIN 1.5GHz	14dB NOMINAL
SMALL SIGNAL GAIN 2.5GHz	15dB NOMINAL
POWER GAIN AT +30dBm 1.5GHz	13.5dB NOMINAL
POWER GAIN AT +30dBm 2.5GHz	14.5dB NOMINAL
GAIN VARIATION:	< 1.0dB ACROSS 1100-1400 AND 2000-2500MHz
SPECTRAL RE-GROWTH:	> -32dBc TO -36dBc AT 1W NOMINAL (* UNDER TEST CONDITION A)
SPECTRAL RE-GROWTH:	> -32dBc TO -36dBc AT 1W NOMINAL (* UNDER TEST CONDITION B)
HARMONICS 1.5GHz:	> -30dBc 1000-1500MHz NOMINAL
HARMONICS 2.5GHz:	> -60dBc 2000-2500MHz NOMINAL
VSWR INPUT / OUTPUT:	< 2.0:1 NOMINAL
MISMATCH TOLERANCE:	VSWR >10:1 ALL PHASE ANGLES AT 1W OUT.
ENABLE:	TTL Logic Enable +5V for PA on.
RISE / FALL TIME:	< 5uS
ISOLATION:	> 60dB

CONNECTORS	
RF INPUT / OUTPUT:	SMA FEMALE
DC POWER:	FEED THROUGH
ENABLE:	FEED THROUGH
* TEST CONDITION A	+20dBm TX BACKED OFF FOR +30dBm OUT OF PA
* TEST CONDITION B	+20dBm TX AT FULL +20dBm WITH ATTENUATOR BEFORE PA

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Company Registration Number 7400511 VAT Registration number 104 9307 36
ABER Electronics reserve the right to alter specs at any time as a result of ongoing product development.
ABER ELECTRONICS LTD ARE ISO9001:2008 CERTIFIED