



WIDE BAND PIN DIODE LIMITER

MLT020040T15

FEATURES

- Wide Bandwidth
- Low Insertion Loss
- Lower limiting threshold
- Miniature Sizes for drop-In Assembly
- Rugged/compact Thin Film Construction
- High power handling



APPLICATIONS

- Front End Protection for LNA's
- Power Leveling (Limiting)
- Receiver Protection

ELECTRICAL SPECIFICATIONS@25°C:

Parameter	Min	Typical	Max	Units
Frequency Range	2		4	GHz
insertion Loss			1.2	dB
VSWR Input/output			1.5:1	Ratio
Threshold		15		dBm
Spike leakage			17	dBm
input power 1% duty cycle peak			700	Watt
Pulse Width		1		us
Input power CW			7	Watt
Recovery Time		50		ns

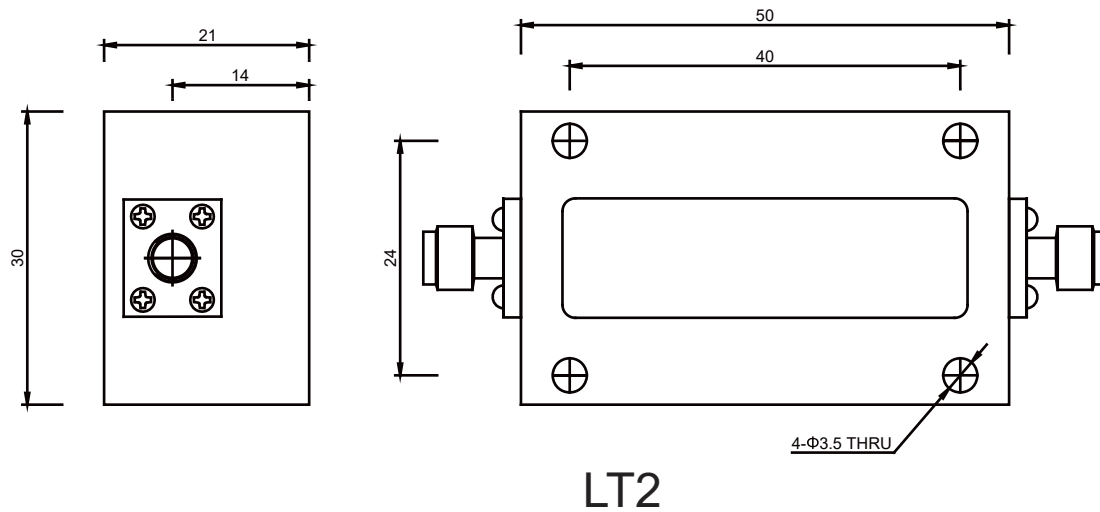
ENVIRONMENTAL RATINGS:

Parameter	Min	Typical	Max	Units
Operating Temperature	-40		+85	°C
Non-operating Temperature	-55		125	°C
Relative humidity (non-condensing)		95		%
Altitude (MIL-STD-810F)	10000		30000	feet
Shock / Vibration (MIL-STD-810F)		Airbone		

MECHANICAL SPECIFICATIONS:

Parameter	Value	Limits	Units
Dimensions(L*W*H)	50*30*21	Max	Milimeter
Weight	80	Max	gram
RF Connectors Input	SMA-F		
RF Connectors output	SMA-F		
Impedance	50		Ohms

OUTLINE DRAWING(mm):



TEST DATA:

Frequency Range (GHz)	Insertion Loss (Max) $\leq 1.2\text{dB}$	Input VSWR (Max) ≤ 1.5	Output VSWR (Max) ≤ 1.5
2-4	0.39	1.09	1.08