

High Power Limiters

STL 400 Series, .350 - 18.0 GHz

FEATURES

- EW & Commercial Applications
- 2 - 100 Watt Power Handling Capability
- Low Insertion Loss
- Low VSWR
- Coaxial Design
- Drop-in Design
- Replaceable Connectors
- Reliability Screening



Description/Applications

ST Microwave provides the Model STL400 Series passive high power limiters for the protection of microwave circuits and receivers. All models are available in both hermetically sealed coaxial and drop-in packages. A unique design approach offers wideband performance and high reliability in a compact package.

The STL400 Series provides a higher limiting threshold and faster recovery characteristics, as well as higher isolation (lower leakage) with higher power handling.

ST Microwave is qualified as a MIL-I-45208 Quality System facility by the DOD and leading foreign and domestic military OEM's. MIL-STD-883 screening is available in-house at additional cost.

Performance Specifications @ 25°C

Model	Frequency (GHz)	Insertion Loss (dB) Max. ¹	VSWR ¹ Max.	Limiting Threshold (dBm) Typ.	Flat Leakage (dBm) Max.	Max. Power Handling CW Power (Watts)	Max. Power Handling, Peak Power (Watts) 1 μsec, .001 DC	Recovery Time (nsec) Max.	Outlines Avail.
STL410	.350 - 500	0.5	2.0:1	5	20	2	200	100	R, A5, B3
STL411	2.0 - 4.0	1	2.0:1	5	17	10	200	150	R, A5, B3
STL412	4.0 - 8.0	1.8	2.0:1	7	17	20	500	100	R, A5, B3
STL413	8.0 - 16.0	2.4	2.0:1	10	17	30	500	200	R, A5, B3
STL418	8.0 - 18.0	2.6	2.2:1	20	30	30	500	200	R, A5, B3
STL450	5 - 15	1.8	2.0:1	6	19	100	1,000	10,000	R, A5,

NOTES:

1. Measured at 0 dBm.
2. All conditions at +25°C. Incident power linearly derate over temperature up to +150°C.
3. Operating temperature: -54 to +85°C.
4. ST Microwave uses an HPR510 ANA and can provide phase matched limiters at any fixed frequency and temperature to ±10°.

For outline drawings, see page 22.