



Solid State

2-TWTs Combined

What It Is

ETM provides the difficult combination of single-device, broadband, pulsed building blocks to achieve much higher power levels from turnkey amplifiers. Most other options either provide high power in narrow bands (Radar for example) or far lower power across broad bands. ETM's suite of products cover 1-18 GHz at very high pulsed power levels covering broad bands instantaneously, allowing for greater field strength on target using fewer amps.

Solid State:

- S13PL: 1.5kW, 1-2 GHz, Pulsed SSA
- S43PL: 4kW, 1-2 GHz, Pulsed SSA

2-TWTs Combined:

- 83PS: 8kW, 2-4 GHz, Pulsed TWTA
- 83PC: 8kW, 4-8 GHz, Pulsed TWTA
- 93PX: 9kW, 8-12 GHz, Pulsed TWTA
- 63PKu: 6kW, 12-18 GHz, Pulsed TWTA

4-TWTs Combined:

- 143PS: 14kW, 2-4 GHz, Pulsed TWTA
- 143PC: 14kW, 4-8 GHz, Pulsed TWTA
- 153PX: 15kW, 8-12 GHz, Pulsed TWTA
- 103PKu: 10kW, 12-18 GHz, Pulsed TWTA

12-TWTs Combined:

- 303PS: 30kW, 2-4 GHz, Pulsed TWTA
- 303PC: 30kW, 4-8 GHz, Pulsed TWTA
- 403PX: 40kW, 8-12 GHz, Pulsed TWTA
- 253PKu: 25kW, 12-18 GHz, Pulsed TWTA

Why It's Important

- Offers higher pulsed power over broader bands than is available from a single device.
- Devices are internally matched, combined, and fixed so no work required by the customer
- No tuning or switching necessary over broad bands
- Rack mount building blocks easy to install, service and maintain

Narrow Band / Higher Power Designs Available

Some examples include:

- 303PC: 30kW, 6-7 GHz, Pulsed (4x TWTs)
- 303PX: 30kW, 9-10 GHz, Pulsed (4x TWTs)
- 153PKu: 15kW, 13-14 GHz, Pulsed (3x TWTs)
- 403PKu: 40kW, 15-17 GHz, Pulsed (12x TWTs)

Potential Markets

- HIRF Testing, Threat Simulation, Radar
- Suitable for sheltered trailer-mount
- Military-qualified designs available to meet temperature, shock and vibration



4-TWTs Combined

12-TWTs Combined