



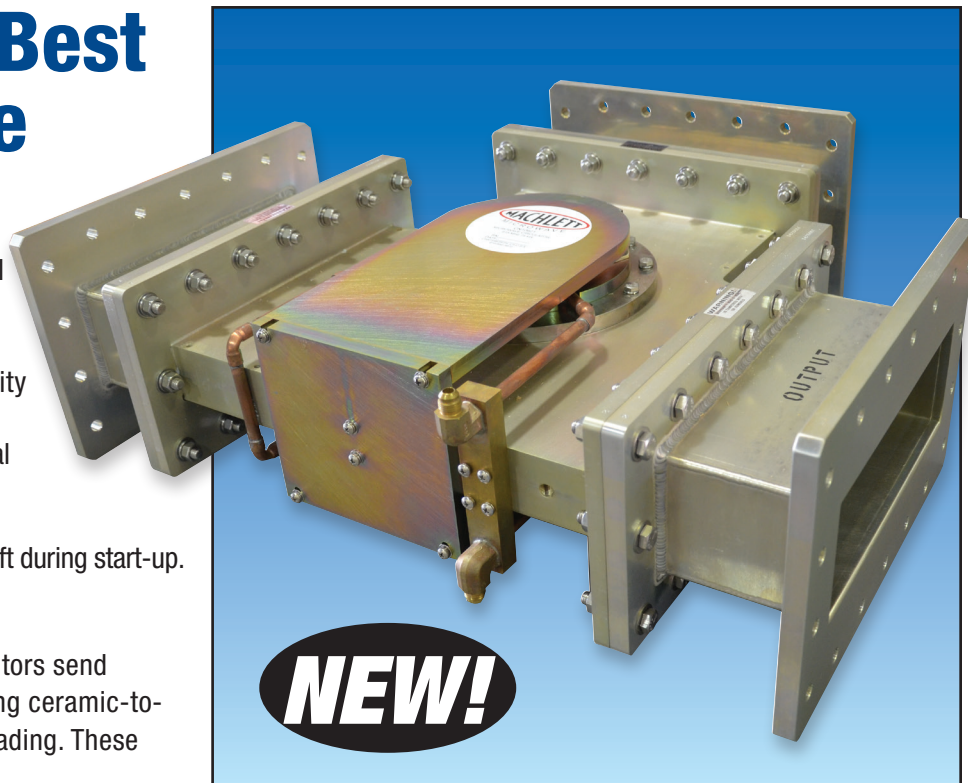
Circulators

Introducing The Best Circulator On The Market Today...

We've taken Circulator technology to the next level and developed a unit that maintains the proper operating temperatures and eliminates power reflections that affect the performance and reliability of magnetron tubes. Check out these features:

- Super-conductive magnets assure a non-reciprocal transmission path.
- Low dome height design for improved clearance.
- Premium grade ferrite material prevents power drift during start-up.
- Copper domes prevent leaks from oxidation.
- More finely tuned than the competition.

It's important to note that circulators from competitors send reflections of power back to the magnetron, causing ceramic-to-metal joint arcs, cracked domes and power overloading. These conditions can void your tube warranty.

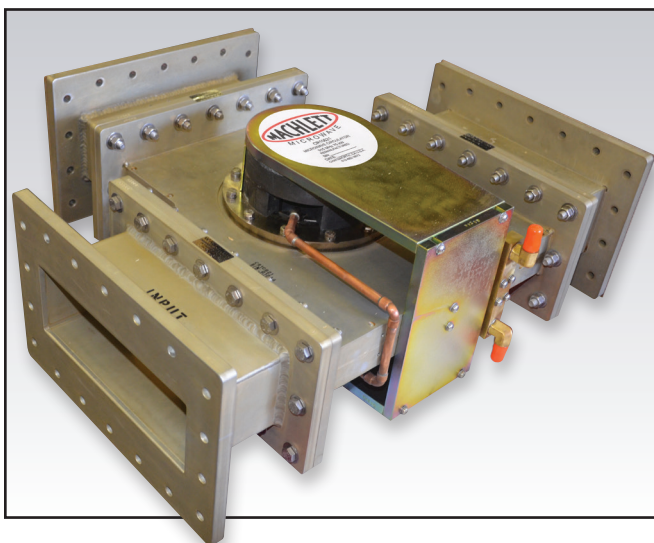


CORE EXCHANGE PROGRAM

New and remanufactured circulators can be shipped the same day as the order is received under Machlett's Core Exchange Program (unit must be a stocked item).

24/7 TECHNICAL SUPPORT

The stated goal of Penta Labs/Machlett is to earn your trust and help keep your equipment running at peak efficiency. We're there for you 24/7.



Remanufactured Circulators Are Machlett's Specialty

The same premium materials and components found in new Machlett circulators are employed to remanufacture Ferrite, AMTek and other brand circulators. Remanufacturing is done by ISO 9001-2008 certified Penta Laboratories to the industry's highest standards. Some upgrades include:

- Refinishing the entire unit with a fresh dipped iridite coating (includes the keepers that hold the magnets and domes in place).
- Exclusive use of premium grade ferrite material.
- Cheaper aluminum domes are replaced with copper domes to prevent leaks from oxidation and enhance service life.
- Units tuned to tighter specification than when new.



Sales Office
Machlett Microwave
54 Bedford Center Rd.
Bedford, NH 03110

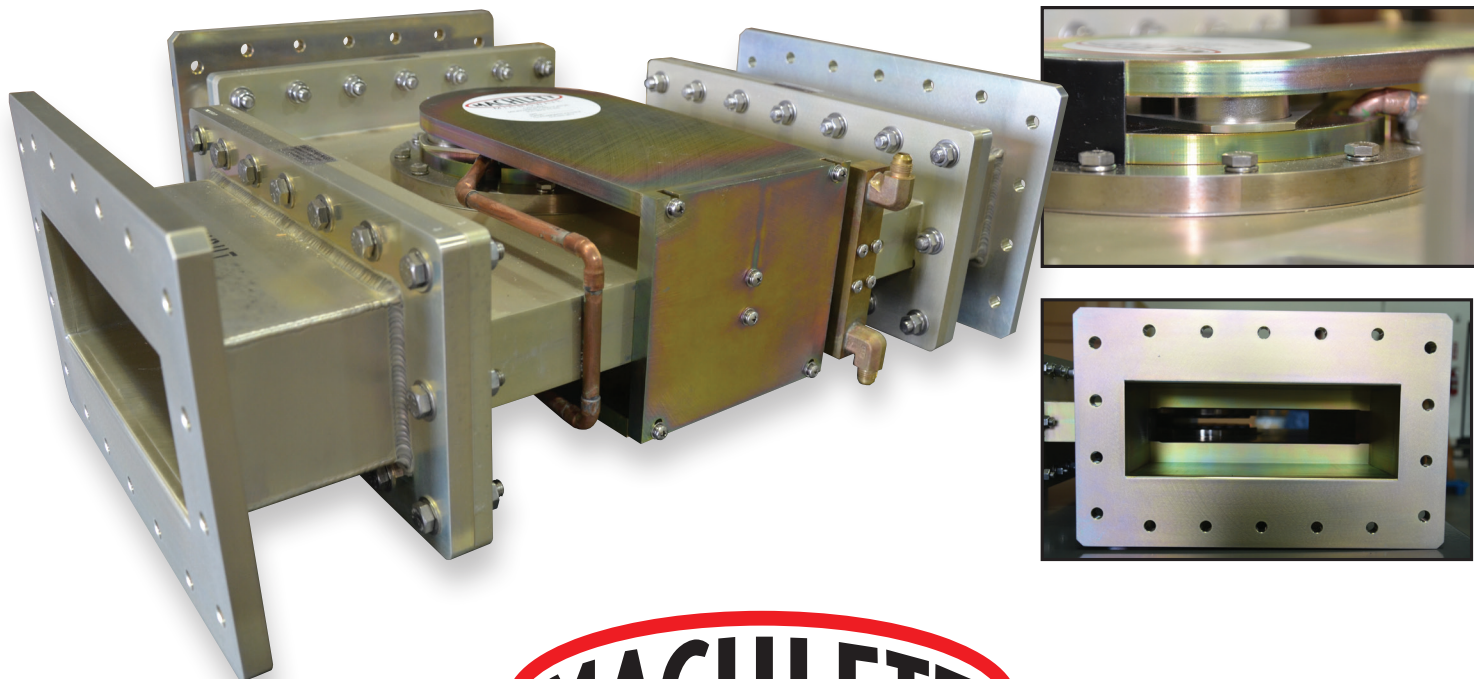
Phone: 603-472-7195
Fax: 603-488-5861
N. Towey cell: 603-714-1013



Sales/Engineering/Manufacturing
Penta Labs/Machlett Microwave
9740 Cozycroft Ave.
Chatsworth, CA 91311

Phone: 800-421-4219
818-882-3872
Fax: 818-882-3968





Microwave Circulator 75 kW 915 MHz

Frequency:	915 MHz \pm 15 MHz
Insertion Loss: (Input to Output)	0.20 dB Max. 900 MHz to 930 MHz 0.15 dB Max. at 915 MHz
Isolation: (Output to Input)	20 dB Min. 900 MHz to 930 MHz 25 dB Min. at 915 MHz
VSWR: (Input and Output)	1.25 Max. 900 MHz to 930 MHz 1.10 Max. at Input Port at 915 MHz Into matched loads with a VSWR of 1.03 Max.
Power:	Continuous Duty at 75 kW into a 10:1 mismatch
Resonance:	Unit must be free of resonances from 890 MHz to 940 MHz
Cooling:	Required coolant flow to operate under maximum power dissipation conditions (75 kW, CW input port, 10:1 mismatch on the output port and a 1.10:1 load on the load port) not to exceed 2.0 GPM at an inlet temperature of 32° C. No leaks at 150 PSIG water, pressure drop not to exceed 15 PSIG as 3 GPM.
Environment:	Unit must be capable of continuous duty in an environment as follows: Ambient temperature: 2° C to 52° C Relative Humidity: 0% to 90%