

Tunable Filters - TMA/TMG Series

◆ Tunable Multicouplers

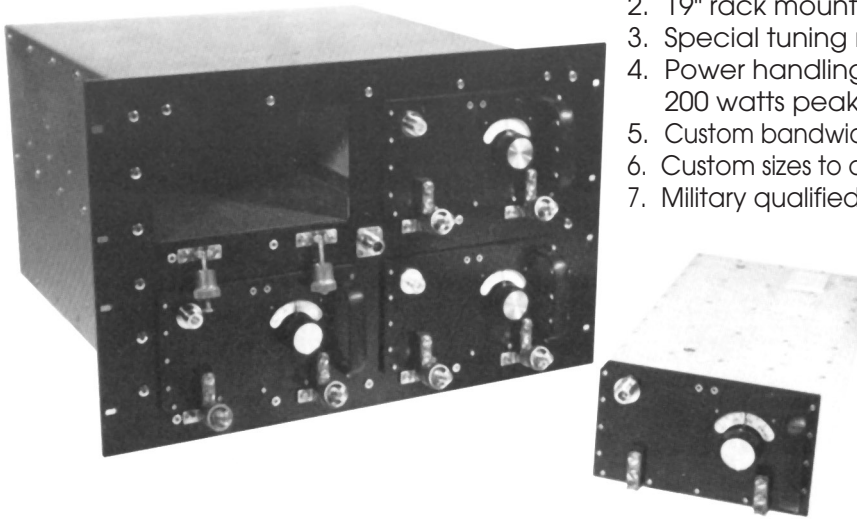
K&L Microwave's Tunable Multicouplers enable up to four transceivers to operate simultaneously in transmission and reception mode using a common antenna. Each multicoupler can be arranged in either ground base or airborne rack assemblies with up to four individually packaged tunable filters in each.

The filters within the tunable multicoupler can cover either the VHF (100-160MHz) or UHF (225-400MHz) communications band. Each filter is available with 3 through 6 sections and a nominal 3dB bandwidth ranging from 0.35 to 5%. Control of each tunable filter is either manually, through a front panel dial assembly, or remotely, through a digitally controlled option. For specifics on the filter configurations, refer to the BT series and the Digital Tunable sections of this catalog.

Model	Description
TMA	Manually tuned multicoupler airborne configuration
TMG	Manually tuned multicoupler ground based configuration

◆ Connectors

Connector	Code
SMA Female	O
SMA Male	OP
"N" Female	N
"N" Male	NP
TNC Female	T
TNC Male	TP
BNC Female	B
BNC Male	BP



◆ To Order

VHF: $\frac{D\ 4/4\ TMA-100/160-2-N/N-G\ R\ I}{1\ 2\ 3\ 4\ 5\ 6\ 7\ 8\ 9\ 10\ 11}$

UHF: $\frac{D\ 4/3\ TMA-225/400-2-N/N-G\ R\ I}{1\ 2\ 3\ 4\ 5\ 6\ 7\ 8\ 9\ 10\ 11}$

1. Digital control designation (remove if manually controlled)
2. Number of channels
3. Number of sections
4. Model designator
5. Frequency Range: VHF (100/160) or UHF (225/400)
6. Nominal 3dB bandwidth in % or MHz
7. Filter Connectors
8. Antenna Connector

Digitally Controlled Options: (Remove if not used)

9. Control logic
10. Drive voltage
11. Infrared sensor

◆ Special Requirements

In addition to the standard line offered in the TMA/TMG series, K&L offers the engineering and manufacturing capabilities to handle a vast array of special requirements. Some of these capabilities are:

1. Digitally controlled
2. 19" rack mounting
3. Special tuning ranges
4. Power handling capabilities up to 200 watts peak
5. Custom bandwidths and shape factors
6. Custom sizes to customer specifications
7. Military qualified capabilities

ISO 9001 Registered Quality Management System

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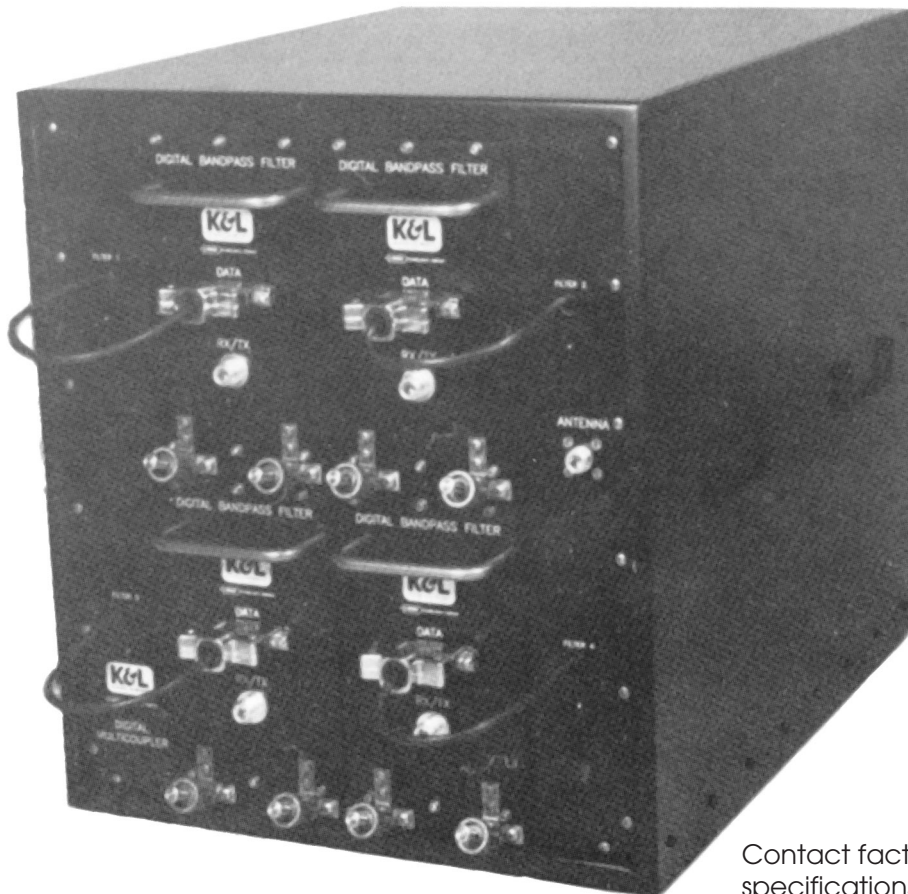
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◆ Specifications

	VHF 0.7%	VHF 1%	VHF 2%	UHF 0.3%	UHF 1%	UHF 2%
Tuning Range	100-160MHz	100-160MHz	100-160MHz	225-400MHz	225-400MHz	225-400MHz
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms	50 Ohms	50 Ohms
VSWR	1.8:1 max	1.75:1 max	1.75:1 max	1.8:1 max	1.75:1 max	1.75:1 max
Loss @ F _C	2.0dB max	1.5dB max	1.0dB max	2.0dB max	1.5dB max	1.0dB max
3dB BW	0.7% nom	1% nom	2% nom	0.3% nom	1% nom	2% nom
Channel separation for 50dB isolation	± 4%	4MHz @ 100MHz 5MHz @ 160MHz	7MHz @ 100 MHz 10MHz @ 160MHz	± 4%	8MHz @ 225MHz 15MHz @ 400MHz	15MHz @ 225MHz 25MHz @ 400MHz
Ultimate Isolation	80dB	80dB	80dB	60dB	80dB	80dB



Contact factory for mechanical specifications.



A DOVER TECHNOLOGIES COMPANY

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