

# Coaxial to Waveguide Adapters



RLC Electronics now offers Coaxial to Waveguide Adapters in a variety of configurations for your specific application. Option A are broadband adapters whose excellent electrical specs are maintained over the entire adapter bandwidth. While option B offers enhanced

performance over a specific band of the adapters' bandwidth. Computer design and the latest in RF techniques coupled with precision assembly ensure optimal electrical performance in the recommended frequency ranges.

## WAD 1-2-3-4-\*

### Option A (Broadband)

Frequency, GHz	Waveguide	Coaxial Connector	VSWR	Ins. Loss, dB
3.30 – 4.90	WR229	N/SMA	1.2	0.05
3.95 – 5.85	WR187	N/SMA	1.2	0.05
4.90 – 7.05	WR159	N/SMA	1.2	0.05
5.85 – 8.20	WR137	N/SMA	1.2	0.05
7.05 – 10.00	WR112	N/SMA	1.2	0.07
8.20 – 12.40	WR90	N/SMA	1.2	0.07
10.00 – 15.00	WR75	N/SMA	1.25	0.1
12.40 – 18.00	WR62	SMA	1.3	0.1
18.00 – 26.00	WR42	2.9 mm	1.35	0.15
26.50 - 40	WR28	2.9 mm	1.4	0.15

### Option B (Customer Band)

Center Frequency, GHz	Bandwidth, GHz	Waveguide	Coaxial Connector	VSWR	Ins. Loss, dB
3.30 – 4.90	0.80	WR229	N/SMA	1.1	0.05
3.95 – 5.85	0.95	WR187	N/SMA	1.1	0.05
4.90 – 7.05	1.07	WR159	N/SMA	1.1	0.05
5.85 – 8.20	1.17	WR137	N/SMA	1.1	0.05
7.05 – 10.00	1.47	WR112	N/SMA	1.1	0.07
8.20 – 12.40	2.10	WR90	N/SMA	1.1	0.07
10.00 – 15.00	2.50	WR75	N/SMA	1.15	0.1
12.40 – 18.00	2.80	WR62	SMA	1.15	0.1
18.00 – 26.00	4.00	WR42	2.9 mm	1.15	0.15
26.50 – 40	6.75	WR28	2.9 mm	1.20	0.15

**Impedance:** 50 ohms

**Avg power:** N 300w, SMA 60w, K 25w

**Connector types:** N, SMA, K, Male or female

Specifications subject to change without notification.

Tolerances unless otherwise specified are .xx +/- .02, xxx +/- .005

Specials requiring closer tolerances, different frequency ranges, special connectors, different materials, finishes, etc. can be furnished upon request.



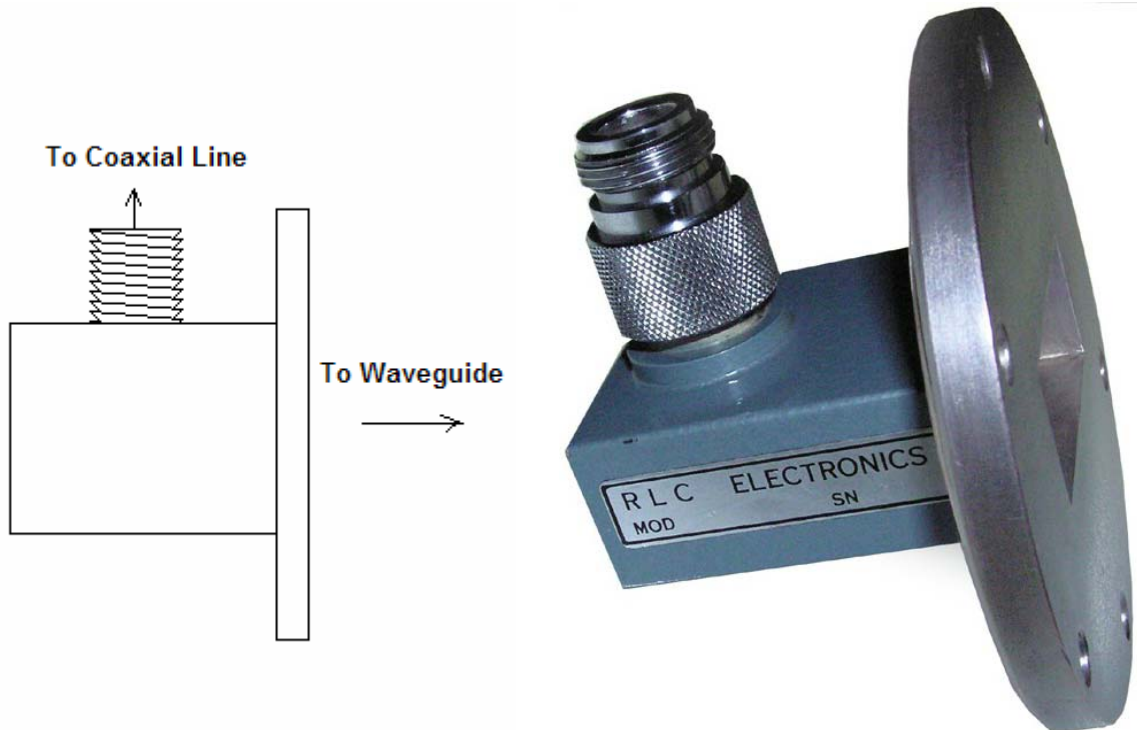
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Part Number  
WAD1-2-3-4-5\*

- 1 – option A (standard), B (customer band)
- 2 – waveguide flange standard
- 3 – Flange Type (1 cover, 2 choke, 3 CPRF, 4 CPRG, 5 CMR, 6 Special)
- 4 – Connector Type (N for N type, R for SMA type, K for 2.9mm, M for male, F for female)
- 5 – center frequency in GHz \* for option B only

Example: WADB-WR137-5-NF-6.450 is a WR137 adapter with CMR flange and N female connector matched for 6.45 GHz in 1.17 GHz bandwidth.



Direction of interface connections

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