



Waveguide to Coaxial Adapters

FEATURES:

- ❖ Full waveguide band operation
- ❖ Low insertion loss
- ❖ Low VSWR
- ❖ Rugged mechanical construction

APPLICATIONS:

- ❖ Test setups
- ❖ Instrumentation
- ❖ Subsystems
- ❖ Transceivers



DESCRIPTION:

CWK Series

Cernex CWK Series waveguide to coaxial line adapters are available in several waveguide bands covering the frequency range of 1.7 to 70GHz. These adapters are especially designed for full waveguide band operation with exceptional high performance. The adapters are ideal choices where a waveguide to coaxial transition is required.

SPECIFICATIONS:

Model Number	Frequency	Freq. Band	Waveguide Size	Flange Type	Coaxial Connector Type	Insertion Loss (dB max)	VSWR Max
CWK430010203	1.7-2.6	L	WR-430	CPR430	SMA-F/N-F	0.3	1.25:1
CWK340020303*	2.3-3.3	S	WR-340	UG1347/U	SMA-F/N-F	0.3	1.25:1
CWK284020303*	2.6-3.95	S	WR-284	CPR284	SMA-F/N-F	0.3	1.25:1
CWK229030403*	3.6-4.2	C	WR-229	CPR229	SMA-F/N-F	0.3	1.25:1
CWK187040503*	4.4-5.8	C	WR-187	CPR187	SMA-F/N-F	0.3	1.25:1
CWK159040703	4.9-7.05	C	WR-159	CMR-159	SMA-F/N-F	0.3	1.25:1
CWK137050803*	5.38-8.17	C	WR-137	PDR-70	SMA-F/N-F	0.3	1.25:1
CWK137050803*	5.8-8.2	C	WR-137	CPR137	SMA-F/N-F	0.3	1.25:1
CWK112070904*	7.7-9.6	C	WR-112	CPR112	SMA-F/N-F	0.4	1.25:1
CWK90081204*	8.2-12.4	X	WR-90	UG39/U	SMA-F/N-F	0.4	1.25:1
CWK90081203*	8.2-12.4	X	WR-90	UG39/U	SMA-F/M	0.3	1.2:1
CWK75101503*	10-15	Xku	WR-75	Square	SMA-F/M	0.3	1.2:1
CWK75101504*	10-15	XKu	WR-75	UBR120	SMA-F/N-F	0.4	1.25:1
CWK62121803*	12-18	Ku	WR-62	UG419/U	SMA-F/M	0.3	1.2:1
CWK62121805*	12.4-18	Ku	WR-62	UG419/U	SMA-F/N-F	0.5	1.25:1
CWK51172105*	17.7-21.2	K	WR-51	UBR180	SMA-F/N-F	0.5	1.30:1
CWK42182405*	18-24	K	WR-42	UG595/U	SMA-F/N-F	0.5	1.25:1
CWK42182603*	18-26.5	K	WR-42	UG595/U	K-F/M	0.3	1.2:1



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CWK42182605	18-26.5	K	WR-42	UG595/U	K-F	0.5	1.25:1
CWK34223303*	22-33	Kb	WR-34	UG1530/U	K-F/M	0.3	1.2:1
CWK28264005	26.5-40	Ka	WR-28	UG599/U	K-F	0.5	1.25:1
CWK28264004*	26.5-40	Ka	WR-28	UG595/U	K-F/M	0.4	1.2:1
CWK282640044*	26.5-40	Ka	WR-28	UG599/U	2.4mm(F) / (M)	0.4	1.2:1
CWK22335004*	33-50	Q	WR-22	UG383/U	2.4mm(F)/(M)	0.4	1.3:1
CWK19406004*	40-60	U	WR-19	UG383/U	1.9mm(F)/(M)	0.4	1.35:1
CWK15507005*	50-70	V	WR-15	UG385/U	1.8mm(F)/(M)	0.5	1.4:1
CWK12609006▲	60-90	E	WR-12	UG387/U	1.8mm(F)/(M)	0.6	1.8:1
CWK10751101▲	75-110	W	WR-10	UG387/U-M	1mm(F)/(M)	1.0 typ	2:1 typ

* SPECIFY CONNECTOR TYPE.

▲ DEGRADED PERFORMANCE > 70GHz

IN LINE:

Model Number	Frequency	Freq. Band	Waveguide Size	Flange Type	Coaxial Connector Type	Insertion Loss (dB max)	VSWR Max
CWK187050501G	5.0-5.8	200	WR187	CPR187	SMA/N	0.1	1.15:1
CWK137060701G	6.0-7.8	200	WR137	PDR-70	SMA/N	0.1	1.15:1
CWK112070801G	7.7-8.5	200	WR112	CPR112	SMA/N	0.1	1.15:1
CWK90081201G	8.8-12.0	300	WR90	UG39/U	SMA	0.1	1.15:1
CWK75101601G	10.0-16.0	300	WR75	UBR120	SMA	0.1	1.15:1
CWK62121801G	12.7-18.0	500	WR62	UG419/U	SMA	0.1	1.15:1

WRD ADAPTERS:

Model Number	Frequency	Waveguide Size	Flange Type	Coaxial Connector Type	Insertion Loss (dB typ.)	VSWR Max
CWK250D020701	2.6-7.8	WRD250	COVER	SMA-F/M	0.1	1.25:1
CWK350D030801	3.5-8.2	WRD350	COVER	SMA-F/M	0.1	1.25:1
CWK475D041101	4.75-11.0	WRD475	COVER	SMA-F/M	0.1	1.25:1
CWK580D051801	5.8-16.0	WRD580	COVER	SMA-F/M	0.1	1.25:1
CWK650D061801	6.5-18.0	WRD650	COVER	SMA-F/M	0.1	1.25:1
CWK180D184001	18.0-40.0	WRD180	COVER	K-F/M	0.1	1.25:1