



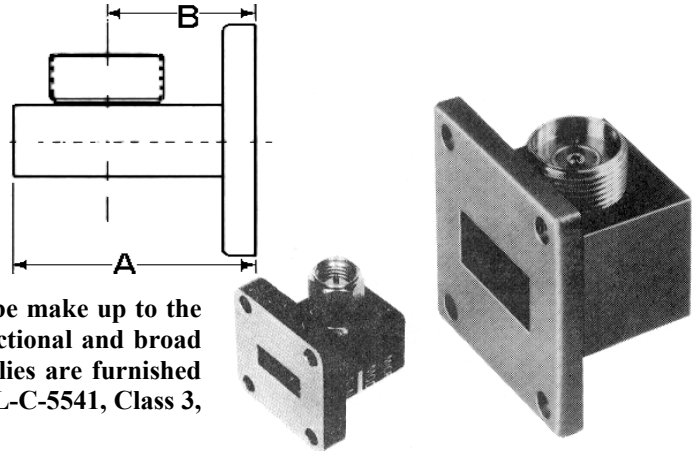
STANDARD RECTANGULAR WAVEGUIDE-TO-COAXIAL ADAPTERS 40 SERIES

**DATA
SHEET
No. T6F**

- **LOWEST VSWR, 1.04 MAXIMUM**
- **LOW INSERTION LOSS**
- **COMPLETE LINE 1.0 –40.0 GHz**

DESCRIPTION

The 40 Series Adapters allow transmission of power between waveguide and coax in either direction with very low reflection. This is achieved by using broadband matching techniques. VSWR over the full band is 1.04 max. for most models, or as limited by the coaxial connector used. High power adapters can be made up to the power rating of the connector requested. Custom designs for fractional and broad band, in-line, half height or other specials are available. Assemblies are furnished with an aluminum housing. Finish is chromate conversion per MIL-C-5541, Class 3, painted with gray epoxy enamel.



SPECIFICATIONS

MODEL NO.	FREQUENCY RANGE (GHz)	WAVEGUIDE SIZE	EQUIPMENT FLANGE	DIMENSIONS (IN.)	
				A. MAX	B ± .03
STANDARD ADAPTERS					
E40	1.0-1.45	WR-770	WR-770	5.50	3.44
L40	1.12-1.70	WR-650	UG-418B/U	4.50	3.06
LM40	1.45-2.20	WR-510	UG-1717/U	4.80	3.27
LA40	1.70-2.60	WR-430	UG-1711/U	3.70	2.62
LS40	2.20-3.30	WR-340	UG-554A/U	2.65	1.62
S40	2.60-3.95	WR-284	UG-584/U	2.75	1.75
B40	3.30-4.90	WR-229	CMR-229	2.00	1.32
G40	3.95-5.85	WR-187	UG-441/U	2.00	1.31
D40	4.90-7.05	WR-159	CMR-159	1.75	1.26
J40	5.85-8.20	WR-137	UG-441/U	1.50†	1.04
H40	7.05-10.0	WR-112	UG-138/U	1.44	.80
W40	7.0-11.0	WR-102	M3922/70-002	1.25	.63
X40	8.2-12.4	WR-90	UG-135/U	1.20	.63
M40*	10.0-15.0	WR-75	M3922/53-008	1.25	.63
P40*	12.4-18.0	WR-62	UG-1665/U	1.20	.68
N40+	15.0-22.0	WR-51	M3922/70-011	1.10	.75
K40+□	18.0-26.5	WR-42	UG-597/U	.90	.45††
Y40□	22.0-33.0	WR-34	M3922/63-010	.90	.45
A40□	26.5-40.0	WR-28	UG-599/UΔ	.90	.60
T40∇	33.0-50.0	WR-22	UG-303/U	.90	.60

*TNC VSWR ≤1.1 to 16 GHz & ≤1.2 from 16 to 18 GHz ∇ Brass
 +SMA VSWR ≤ 1.01+ .005 f (GHz) to 26 GHz †1.62 for-14
 □SSMA VSWR ≤1.09+. 007 f(GHz)to 40 GHz ††.47 for-17
 ΔAluminum

ORDERING INFORMATION

- (1)SEE CONNECTOR CHARE
 - (2)VSWR Maximum: A for 1.04 B for 1.06 C for 1.10 P (see High Power Option)
 - (3)HIGH POWER Option:
 - P for high average power determined by connector as follows:
 - VSWR
 - 1.20 max.
 - 1.15 typ.
 - SC to 8.2 GHz - 800w.
 - N to 8.2 GHz – 600 W. Derate Linearly to 300 W at 18 GHz
 - TNC to 18 GHz – 200 W.
 - SMA to 18 GHz – 50 W.
 - (4)FRACTIONAL BANDWIDTH: L for lower half M for middle half H for upper half
- EXAMPLE: Model x40-7AL=WR90 to 7 mm coaxial adapter with VSWR of 1.04 max. over the frequency range 8.2–10.0 GHz.

