



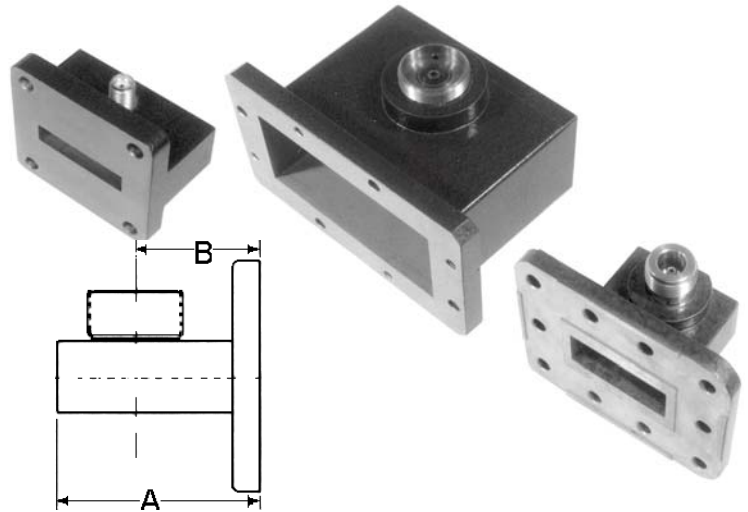
SPECIAL RECTANGULAR WAVEGUIDE- TO-COAXIAL ADAPTERS 40 SERIES - SPECIALS

**DATA
SHEET
No. T5D**

- **LOWEST VSWR**
- **LOW INSERTION LOSS**
- **NARROW AND BROAD BANDWIDTHS**

DESCRIPTION

MEC offers a wide range of Adapters for specialized applications requiring non-standard rectangular waveguides and/or frequency bands. They allow transmission of power in either direction with the lowest possible reflection. This is achieved by using broadband matching techniques. High power adapters are available up to the power rating of the connector requested. Requirements for other bands, waveguide heights and in-line adapters can also be satisfied. Assemblies are furnished with an aluminum housing. Finish is chromate conversion per MIL-C-5541, Class3, painted with gray epoxy enamel.



SPECIFICATIONS

MODEL NO.	FREQUENCY RANGE (GHz)	WAVEGUIDE		EQUIVALENT FLANGE	DIMENSIONS (IN.)		MAXIMUM VSWR
		SIZE	I.D. (INCHES)		A.MAX	B ± .03	
STANDARD WAVEGUIDE COMMUNICATIONS AND NARROW BAND							
B40M	3.7 - 4.2	WR-229	2.290 x 1.145	CMR-229	2.00	1.32	A for 102
D40M	5.925 - 6.425	WR-159	1.590 x 0.795	CMR-159	1.75	1.26	B for 1.05
J40L	5.925 - 6.425	WR-137	1.372 x 0.622	CMR-137	1.50†	1.04	
H40L	7.25 - 8.4	WR-112	1.122 x 0.497	CMR-112	1.44	.80	C for 1.10
X40L	10.7 - 11.7	WR-90	0.900 x 0.400	CMR-90	1.20	.63	
M40L	10.7 - 11.7	WR-75	0.750 x 0.375	M3922/53-008	1.25	.63	P for 1.20
N40L	17.0 - 19.0	WR-51	0.510 x 0.255	M3922/70-011	1.10	.75	
STANDARD WAVEGUIDE EXTENDED FREQUENCY BAND							
S41	2.3 - 4.1	WR-284	2.840 x 1.340	UG-584/U	2.75	1.75	A for 1.10
D41	4.1 - 7.0	WR-159	1.590 x 0.795	CMR-159	1.75	1.26	B for 1.20
X41	7.5 - 13.0	WR-90	0.900 x 0.400	UG-135/U	1.20	.63	P for 1.30
P41	11.5 - 18.0	WR-62	0.622 x 0.311	UG-1665/U	1.20	.68	
REDUCED HEIGHT FULL FREQUENCY BAND							
S2-40	2.60 - 3.95	M85/4-017	2.840 x 0.670	M3922/75-06	2.50	1.50	A for 1.04 B for 1.06 C for 1.10 D for 1.20 P for 1.30
J2-40	5.85 - 8.20	M85/4-008	1.372 x 0.487	M3922/75-04	1.50	1.10	
H2-40	7.05 - 10.0	M85/4-031	1.122 x 0.249	M3922/75-10	1.05	.57	
W2-40	7.0 - 11.0	M85/4-026	1.020 x 0.255	M3922/75-09	1.16	.62	
REDUCED HEIGHT EXTENDED FREQUENCY BAND							
S2-42	2.60 - 5.85	M85/4-007	2.840 x 1.004	M3922/75-02	2.50	1.57	A for 1.25
J2-42	5.85 - 12.4	M85/4-008	1.372 x 0.487	M3922/75-04	1.50	1.10	P for 1.30
MEC FLATGUIDE®							
F40	8.0 - 16.0	(F750)M85/4-033	0.847 x 0.312	(F750C1)M3922/75-18	5.10	4.53	A for 1.15
F41	7.0 - 17.0	(F700)M85/4-029	0.965 x 0.320	(F700C1)M3922/75-22	5.50	5.00	A for 1.25
F42	5.2 - 10.4	(F400)M85/4-023	1.668 x 0.506	(F400C1)M3922/75/24	8.50	7.50	A for 1.15

†1.62 for -14

ORDERING INFORMATION

Add suffixes to model number as follows:

1. SEE CONNECTOR CHART
2. VSWR: A, B, C, D or P (High Power Option)
3. HIGH POWER OPTIONS: -P (see Data Sheet T6E for connectors & power levels)

