

# Waveguide to Coaxial Adapters



make a  
connection



**ESAT1400**  
Waveguide to  
Coaxial Adapters (N)

**ESAT1401**  
Waveguide to  
Coaxial Adapters  
(SMA)

**ESAT1402**  
Waveguide to  
Coaxial Adapters (K)

## Waveguide to Coaxial Adapters

Our line of rectangular waveguide adapters are used to transform from a waveguide to coaxial cable interface. The C, X and Ku-Band adapters are fitted with a durable type N connectors, or optional SMA, and our Ka-band models with K (2.92mm) connectors.

Constructed from either brass/copper or lightweight aluminum and treated with corrosion-resistant film these adapters are designed to offer years of reliable field service.

Our adapter products are hermetically sealed to prevent water ingress and are finished with a durable exterior paint.

### Key Features:

- Compact size and light weight
- Short lead-time availability
- Wide operating temperature range -40 to +85 C
- Alternate frequency bands and flange configurations available
- Backed by a 2 year warranty



### Specifications—Full Waveguide band

Model	Waveguide Flange Type					Waveguide Size WR (R)	Passband (GHz)		Connector Type Impedance 50 Ohm	RF Power (Watts) Max.	Return Loss (dB) min.
	CPRF	UDR	CMR	Cover	UBR		From	To			
ESAT1400-05	-02	-22	-09	-06		137 (70)	5.85	8.20	N Female	150	23
ESAT1400-06	-02	-22	-09	-03	-23	112 (84)	7.05	10.00	N Female	150	21
ESAT1400-07	-02	-22	-09	-03	-23	90 (100)	8.2	12.4	N Female	150	21
ESAT1400-08				-03	-23	75 (120)	10	15	N Female	150	20
ESAT1401-08				-03	-23	75 (120)	10	15	SMA Female	50	21
ESAT1400-09				-03	-23	62 (140)	12.4	18.0	N Female	150	18
ESAT1401-09				-03	-23	62 (140)	12.4	18.0	SMA Female	50	19
ESAT1401-11				-03	-23	42 (220)	18.0	26.5	SMA Female	50	17
ESAT1402-12				-03	-23	34 (260)	22.0	33.0	K Female	20	17
ESAT1402-13				-03	-23	28 (320)	26.5	40.0	K Female	20	17

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## Specifications—Optimized for Narrow Frequency Band

Model	Waveguide Flange Type					Waveguide Size WR (R)	Passband (GHz)		Connector Type Impedance 50 Ohm	RF Power (Watts) Max.	Return Loss (dB) min.
	CPRF	UDR	CMR	Cover	UBR		From	To			
ESAT1400-05A	-02	-22	-09	-06		137 (70)	5.850	6.425	N Female	150	26
ESAT1400-05B	-02	-22	-09	-06		137 (70)	6.425	7.125	N Female	150	26
ESAT1400-05C	-02	-22	-09	-06		137 (70)	7.125	7.750	N Female	150	26
ESAT1400-05D	-02	-22	-09	-06		137 (70)	5.725	6.425	N Female	150	26
ESAT1400-05G	-02	-22	-09	-06		137 (70)	5.6	6.2	N Female	150	26
ESAT1400-05R	-02	-22	-09	-03		137 (70)	5.90	7.75	N Female	150	24
ESAT1400-06A	-02	-22	-09	-03	-23	112 (84)	7.125	7.750	N Female	150	26
ESAT1400-06C	-02	-22	-09	-03	-23	112 (84)	7.125	8.500	N Female	150	24
ESAT1400-06N	-02	-22	-09	-03	-23	112 (84)	7.9	8.4	N Female	150	26
ESAT1400-07A	-02	-22	-09	-03	-23	90 (100)	10.2	10.7	N Female	150	26
ESAT1400-07B	-02	-22	-09	-03	-23	90 (100)	10.7	11.7	N Female	150	26
ESAT1401-11C				-03	-23	42 (220)	17.9	19.6	SMA Female	50	21
ESAT1402-13A				-03	-23	28 (320)	37	40	K Female	20	19
ESAT1402-13D				-03	-23	28 (320)	27	31	K Female	20	19

## Part Number Guide

ESAT1400		-05	C	-02	-PG	
Adapter Type	Waveguide / N	Waveguide / SMA	Waveguide / K	Narrow Band Code	Flange Type	Exterior Finish
	ESAT1400	ESAT1401	ESAT1402			-PG Painted Grey
						-PB Painted Black
						-PW Painted White
				Waveguide Size		-R Iridite

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