

# Coaxial RF Transformer

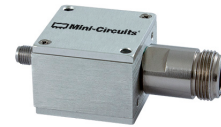
## FT-1.5-232+

50/75Ω

0.5 to 2350 MHz

### The Big Deal

- Good return loss, 22 dB
- Low insertion loss, 1.3 dB
- 1W power handling
- SMA /N-Type or SMA/F-Type connectors



CASE STYLE: H795-13

### Product Overview

Mini-Circuits' FT1.5-232+ is a coaxial 50/75Ω transformer with a covering the 0.5 to 2350 MHz frequency range, supporting impedance matching in CATV systems and other applications. This model handles RF input power up to 1W and provides low insertion loss and excellent return loss. Measuring only 1.25 x 1.25 x 0.94", the transformer comes housed in a rugged, aluminum alloy case with your choice of SMA/N-Type or SMA/F-Type connectors.

### Key Features

Feature	Advantages
Wideband, 0.5 to 2350 MHz	Supports a variety of applications including CATV and DOCSIS 3.1 systems and equipment.
Low insertion loss, 0.5 - 1.3 dB	Enables excellent signal power transmission from input to output.
Good return loss, 22 dB typ.	Excellent matching with minimal signal reflection.
Compact size, 1.25 x 1.25 x 0.94"	Accommodates tight space requirements for crowded system layouts.
SMA/N-Type or SMA/F-Type connectors	Supports a variety of connector configuration requirements.

#### Notes

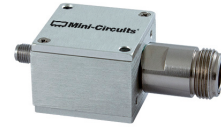
- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.  
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## FT-1.5-232+

50/75Ω 0.5 to 2350 MHz



### Maximum Ratings

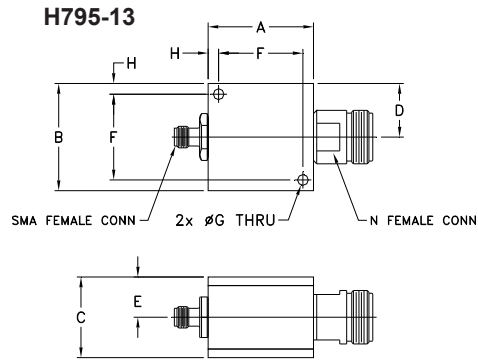
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	1W

Permanent damage may occur if any of these limits are exceeded.

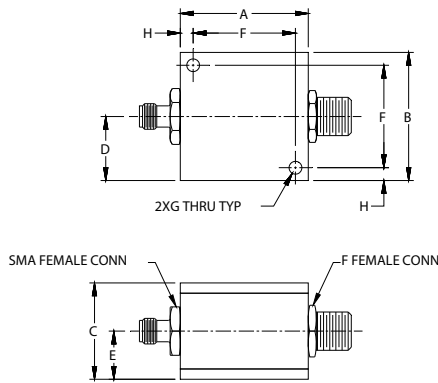
### Coaxial Connections

SMA (Input)	50Ω
N-Type (Output)	75Ω

### Outline Drawing



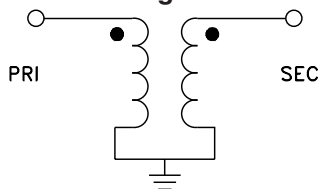
### H795-5



### Outline Dimensions (inch/mm)

A	B	C	D	E
1.25	1.25	.94	.63	.47
31.75	31.75	23.88	16.00	11.94
F	G	H	wt	
1.000	.125	.125	grams	
25.40	3.18	3.18	43.8	

### Config. D



### Features

- wideband, 0.5 to 2350 MHz
- good return loss, 22 dB typ.

### Applications

- impedance matching
- DOCSIS 3.1

Connectors	Model	Case Style
SMA / N-Type	FT-1.5-232-SN+	H795-13
SMA / F-Type	FT-1.5-232-SF+	H795-5

### +RoHS Compliant

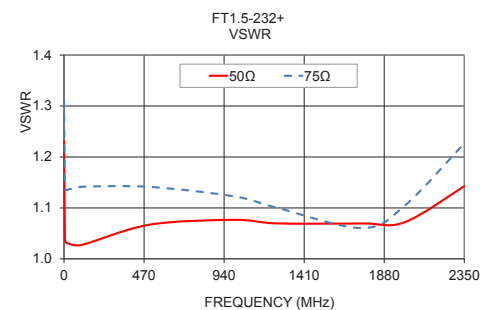
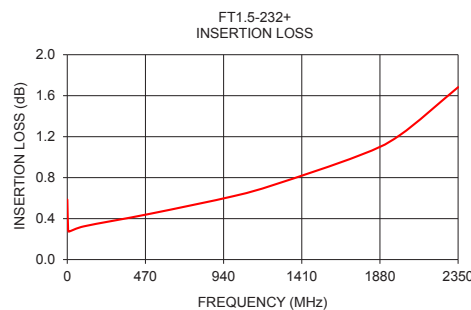
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

### Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Impedance Ratio (secondary/primary)			1.5		
Frequency Range		0.5		2350	MHz
Insertion Loss	0.5-1250	—	0.5	1.0	dB
	1250-2350	—	1.3	2.0	
VSWR	0.5-5	—	1.28	1.5	:1
	5-1250	—	1.15	1.3	
	1250-2350	—	1.25	1.6	

### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
		50 Ω	75 Ω
1	0.59	1.23	1.31
5	0.29	1.05	1.15
10	0.27	1.03	1.14
100	0.32	1.03	1.14
500	0.45	1.07	1.14
1000	0.62	1.08	1.12
1250	0.73	1.07	1.10
1750	1.01	1.07	1.06
2000	1.21	1.07	1.10
2350	1.68	1.14	1.23



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