

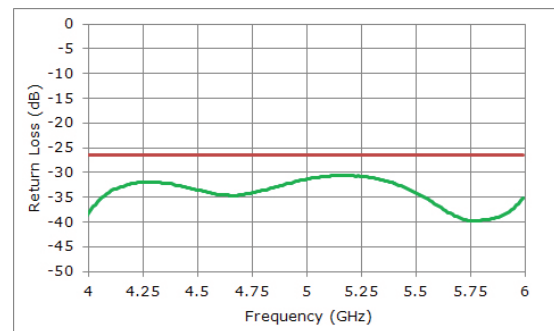
# Low PIM Waveguide to Coaxial Adapter Series 098

## Features

- **Low PIM**
- **Models 1.72GHz to 40 GHz**
- **Low VSWR**
- **Low insertion loss**
- **Connector Options include:**  
Type N  
K Connector (2.92mm)  
7-16 DIN
- **Minimal junctions/surface materials**
- **Low Outgassing (TML <1% CVCH <0.1%**
- **Grounded center conductor**
- **Precision Air Line Connector**



Model: 12098-NF CPR187G



Typical Return Loss for Model 12098-NF10

The Flann Series 098 Waveguide to Coaxial Adapters have been designed and constructed to provide optimally low levels of Passive Intermodulation (PIM)

Standard connector types include:  
Type N, K Connector and 7-16 DIN

For High Power Models please see series 097

## Ordering

Please specify the following:

WG designation	Series	-	Coax Connector	Gender	XX	Flange
08 - 22	098		N, K, D	F (Female) or M (Male)	N & D = 10 K = 20	See flann.com

Example: 17098-NF10 UBR120 A WG17 (WR75) Low PIM Waveguide to Coax Adapter with N-type female coax connector with UBR 120 flange

# Low PIM Waveguide to Coaxial Adapter Series 098

## Microwave Specifications

Waveguide Designation			Frequency (GHz)	Coaxial Connector Options			VSWR max	Insertion Loss max (dB)
WG	R	WR		D	N	K		
8	22	430	1.72 - 2.61	•			1.1	
9A	26	340	2.17 - 3.30	•				
10	32	284	2.60 - 3.95	•	•			
11A	40	229	3.22 - 4.90	•	•		0.12	
12	48	187	3.94 - 5.99	•	•			
13	58	159	4.64 - 7.05	•	•			
14	70	137	5.38 - 8.18		•	•	0.15	
15	84	112	6.58 - 10.0		•	•		
16	100	90	8.20 - 12.5		•	•		
17	120	75	9.84 - 15.0		•	•	1.12	
18	140	62	11.9 - 18.0		•	•		
19	180	51	14.5 - 22.0			•		
20	220	42	17.6 - 26.7			•	1.17	
21	260	34	21.7 - 33.0			•		
22	320	28	26.4 - 40.1			•		
							1.20	0.20

Waveguide Designation	Insertion Loss (Db)
7-16 DIN	D
Type N	N
K Connector (2.92 mm)	K

## Environmental Specifications

- Operating ambient temperature : 30<sup>0</sup> C to 70<sup>0</sup> C
- Non operating ambient temperature: -40<sup>0</sup> C to 80<sup>0</sup> C
- TML (Total Mass Loss) : <1%
- CVCN (Collected Volatile Condensable Mass) : <0.1%

## Construction

- D option - Aluminium and Chromate Passivation
- N option - Aluminium and Chromate Passivation
- K option - Brass and Gold Plate