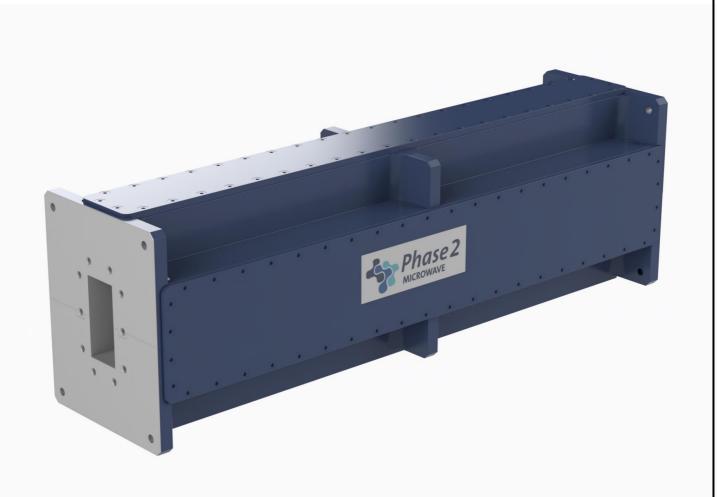


DATA SHEET WR284 (WG10) Absorptive Harmonic Filter 001294

KEY FEATURES

- Low insertion loss
- Good return loss
- 1MW peak power rating
- High 2nd, 3rd and 4th Harmonic attenuation
- Convection cooled

This S band Harmonic absorptive waveguide filter is used in high power transmitter radar applications. The unit can be pressurised up to 30psi. Other power level variants are available upon request, and complimentary Lowpass and Bandpass filters can be supplied

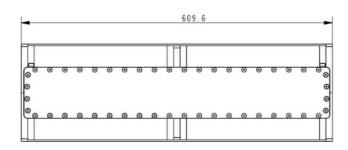


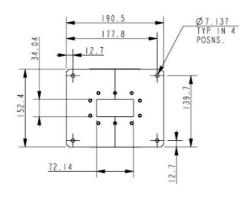


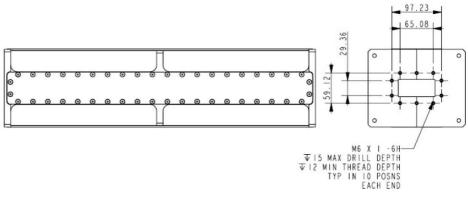


DATA SHEET Phase 2 WR284 (WG10) Absorptive **Harmonic Filter** 001294

Interface Control Drawing











DATA SHEET Phase 2 WR284 (WG10) Absorptive **Harmonic Filter** 001294

Specification	
Model	001294
Passband	2.7 – 2.9 GHz
Insertion loss, 2.7 – 2.9GHz	≤ 0.15 dB (0.1 dB typical)
Return loss, 2.7 – 2.9GHz	> 26.4 dB (28 dB typical)
Return Loss Harmonic bands	
Second Harmonic, 5.4 - 5.8 GHz	> 14 dB (> 30 dB typical)
Second Harmonic, 8.1- 8.7 GHz	> 14 dB (> 24 dB typical)
Second Harmonic, 10.8 - 11.6 GHz	> 14 dB (> 18 dB typical)
Attenuation (TE10 and TE01)	> 40 dB (> 48 dB typical)
5.4 - 5.8 GHz (Second Harmonic)	
Attenuation (TE10 and TE01)	> 30 dB (> 32 dB typical)
8.1 - 8.7 GHz (Third Harmonic)	
Attenuation (TE10 and TE01)	> 10 dB (> 20 dB typical)
10.8 - 11.6 GHz (Fourth Harmonic)	
Peak power	1MW MAX
Average power (Harmonic Bands)	1kW @1% duty cycle
Environmental	
Temperature Range	-10°C ~ +60°C
Operating Waveguide pressure	30 psi max, leakage rate 0.5mbl/s
Mechanical	
Connectors	WR284 each end
Size	001294-ICD-01 (ref drawing below)
Paint Finish	Epoxy Paint
RoHs	Compliant
Note: All information is correct at date of issue. Specifica	tions are subject to change without notice



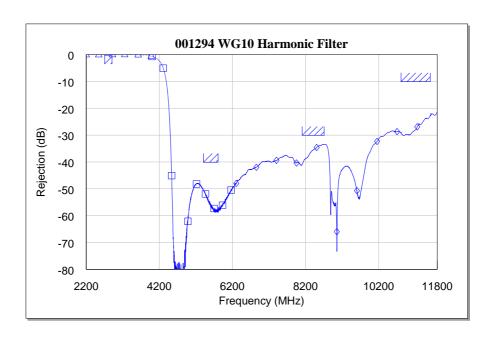
Issued: 05/10/21 Revision: 02

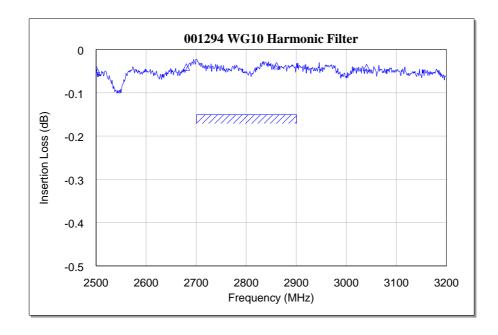




DATA SHEET WR284 (WG10) Absorptive Harmonic Filter 001294

Measured Performance









DATA SHEET WR284 (WG10) Absorptive Harmonic Filter 001294

