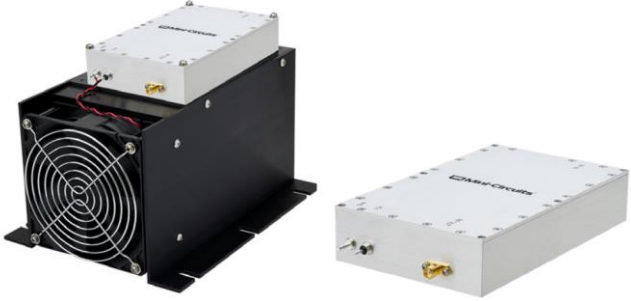


REPLACEMENT PART REFERENCE GUIDE,
ZHL-10W-2GX+ and ZHL-10W-2G+

Replacement Part has been judged by Mini-Circuits Engineering as a suitable replacement to Original Part.

ORIGINAL PART:	ZHL-10W-2GX+ ZHL-10W-2G+	
REPLACEMENT PART:	ZHL-0G82G0010X+ ZHL-0G82G0010+	

Note: This replacement part reference guide is applicable for the ZHL-10W-2GX+ (amplifier without heatsink) and the ZHL-10W-2G+ (amplifier with heatsink). The heatsink properties and dimensions for the original part and the replacement part are the same.

MECHANICAL DIMENSIONS

Case Style: BT1204
Replacement part uses same case style as original part.

CONCLUSION:

1) FORM-FIT-FUNCTIONAL ANALYSIS_a:

The Replacement Part is Form, Fit compatible.

Following is a summary of changes/improvements in the electrical specification:

Parameter	Original Part ZHL-10W-2GX +	Replacement Part ZHL-0G82G0010X+
Input VSWR	No Max Spec Specified	2:1, Max
Output VSWR	No Max Spec Specified	3:1, Max
DC Supply Voltage	No Min Spec Specified +28 V, Max	+20 V, Min +28 V, Max
DC Supply Current with Fan	No Max Spec Specified	5.4 A, Max

For typical performance and graphs: See paragraphs 2 and 3

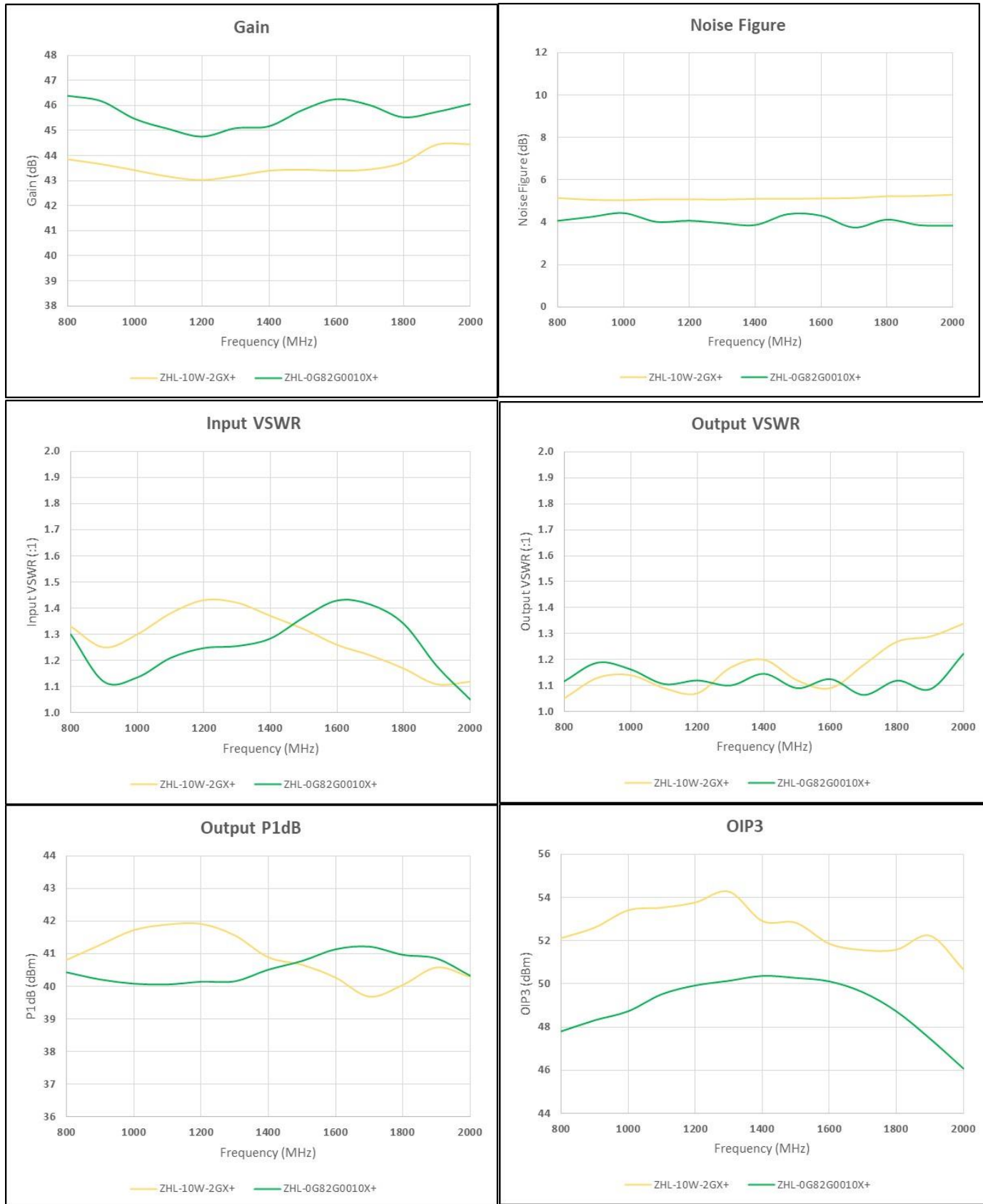
2) TYPICAL PERFORMANCE COMPARISON AT ROOM TEMPERATURE:

MODEL: ZHL-10W-2GX+ (Original), ZHL-0G82G0010X+ (Replacement) (RF Parameters)

Parameter	Frequency MHz		Original Design ZHL-10W-2GX+			Replacement Design ZHL-0G82G0010X+		
	From	To	Min	Avg	Max	Min	Avg	Max
Gain (dB)	800	2000	43.03	43.59	44.45	44.49	45.59	47.03
P1dB (dBm)	800	2000	39.69	40.89	41.91	39.69	40.56	41.56
OIP3 Worse of Lower/Upper (dBm)	800.0001	2000	50.67	52.58	54.28	45.91	49.16	50.79
Input VSWR (:1)	800	2000	1.11	1.28	1.43	1.02	1.22	1.48
Output VSWR (:1)	800	2000	1.05	1.16	1.34	1.00	1.11	1.27
Noise Figure (dB)	800	2000	5.05	5.14	5.30	3.21	3.95	4.54

Please note that data compiled above and plotted on the next two pages is for ZHL-10W-2GX+ and ZHL-0G82G0010X+ (models without heatsink). Similar performance can be expected between the model supplied without heatsink and the model supplied with heatsink.

3) TYPICAL PERFORMANCE GRAPHS AT ROOM TEMPERATURE:





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