
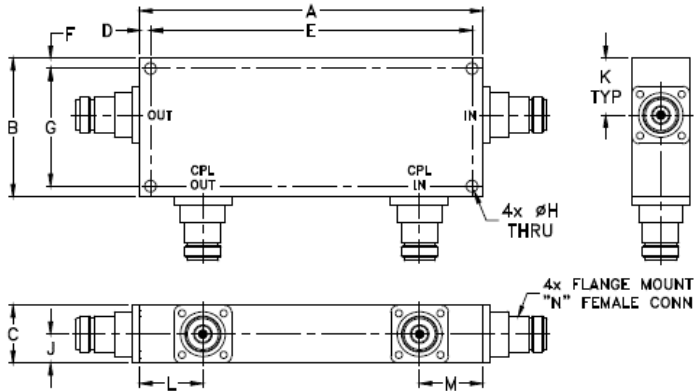
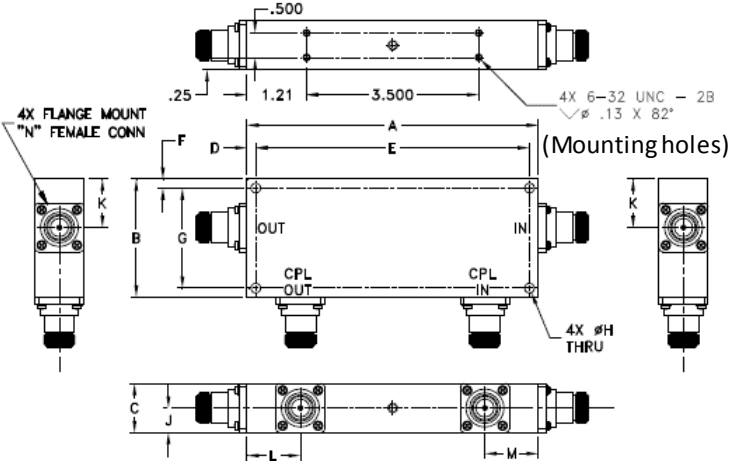


REPLACEMENT PART REFERENCE GUIDE, ZGBDC10-362HP+ AN-30-012

ORIGINAL PART:	ZGBDC10-362HP+	
REPLACEMENT PART:	ZGBDC10-372HP+	

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

MECHANICAL DIMENSIONS

ORIGINAL PART: ZGBDC10-362HP+	REPLACEMENT PART: ZGBDC10-372HP+
<p>Case Style HT1760</p> 	<p>Case Style HT1760-1</p> 
<p>*Dimension sizes for both HT1760 and HT1760-1 are the same *Replacement part has additional mounting holes as shown</p>	

CONCLUSION:

1) **FORM-FIT-FUNCTIONAL ANALYSIS_a:**

The Replacement Part is Form, Fit compatible.

Parameter	Original Part	Replacement Part
Frequency (MHz)	380-3600	380-3700
Coupling Flatness (\pm)	1.75 Max	1.25 Max
(380-600 MHz)	1.2 Max	0.6 Max
(600-2700 MHz)	1.2 Max	0.5 Max
(2700-3600 MHz)		
Insertion Loss (dB)	0.25 Max	0.20 Max
(380-600 MHz)	0.40 Max	0.30 Max
(600-2700 MHz)	0.50 Max	0.35 Max
(2700-3600 MHz)		
Directivity (dB)	14.0 Min	15.0 Min
(600-2700 MHz)	13.6 Min	14.0 Min
(2700-3600 MHz)		
Weatherproof	IP67	None

Following is a summary of changes/improvements in the Specification:

For typical performance and Graphs: See paragraphs 2 and 3

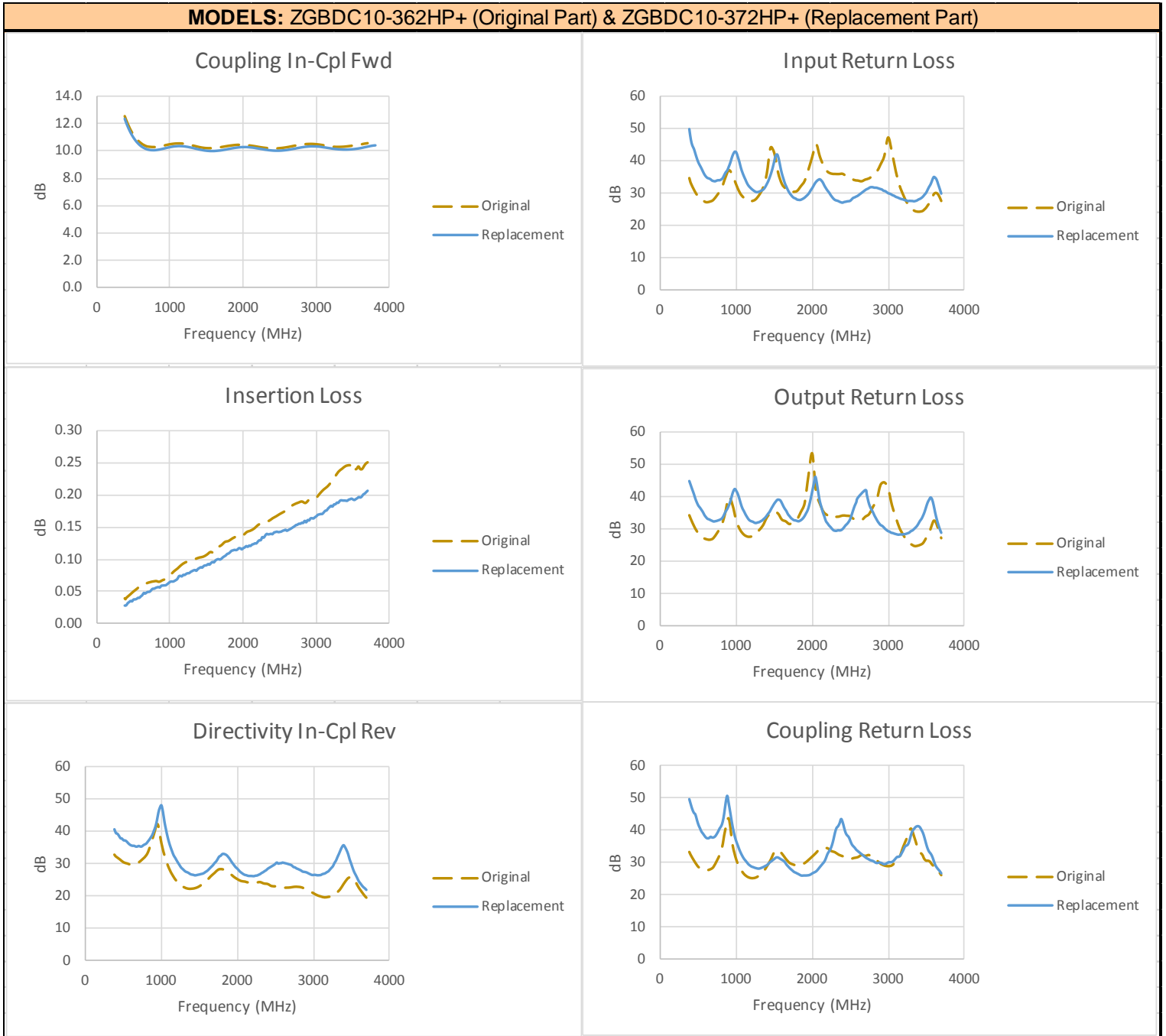
2) TYPICAL PERFORMANCE COMPARISON AT ROOM TEMPERATURE:

MODEL: ZGBDC10-362HP+ (RF Parameters)

For typical performance and Graphs: See paragraphs 2 and 3

RF Parameters	Frequency (MHz)		Original Design @ 10 Units			Replacement Design @ 10 Units		
	From	To	Min	Ave	Max	Min	Ave	Max
Coupling (dB)	380	600	10.4	11.6	12.6	10.0	11.0	12.4
	600	2700	9.9	10.4	10.8	9.5	10.1	10.6
	2700	3600	10.0	10.5	10.9	9.7	10.2	10.6
	2700	3700	-	-	-	9.7	10.2	10.6
Coupling Flatness (+/-)	380	600	0.95	0.97	0.99	0.96	0.99	1.02
	600	2700	0.17	0.20	0.25	0.17	0.21	0.27
	2700	3600	0.11	0.13	0.16	0.10	0.12	0.15
	2700	3700	-	-	-	0.11	0.13	0.16
Insertion Loss (dB)	380	600	0.04	0.05	0.08	0.03	0.04	0.05
	600	2700	0.07	0.16	0.24	0.04	0.10	0.16
	2700	3600	0.23	0.28	0.33	0.15	0.18	0.22
	2700	3700	-	-	-	0.15	0.18	0.22
Directivity (dB)	380	600	28.3	32.3	39.7	29.9	37.7	49.7
	600	2700	17.7	26.0	43.4	19.8	29.0	56.2
	2700	3600	17.2	20.7	33.3	15.7	24.6	37.9
	2700	3700	-	-	-	15.6	24.1	37.9
Return Loss Input (dB)	380	600	25.3	33.0	46.4	33.4	41.8	51.5
	600	2700	23.6	33.3	54.3	24.7	34.6	60.5
	2700	3600	23.7	32.4	55.3	22.7	30.5	62.7
	2700	3700	-	-	-	22.7	30.9	63.9
Return Loss Output (dB)	380	600	25.1	32.6	43.3	33.6	41.0	57.8
	600	2700	22.0	32.4	53.2	25.8	34.1	57.5
	2700	3600	22.0	30.6	50.2	24.4	31.2	55.3
	2700	3700	-	-	-	23.1	31.3	58.5
Return Loss Coupling (dB)	380	600	26.4	33.4	51.4	33.8	41.0	55.5
	600	2700	23.0	32.0	55.3	25.5	33.8	54.1
	2700	3600	22.7	30.6	52.3	22.7	30.0	49.2
	2700	3700	-	-	-	22.8	29.7	49.2

3) TYPICAL PERFORMANCE GRAPHS AT ROOM TEMPERATURE:



IMPORTANT NOTICE

This document is provided as an accommodation to Mini-Circuits customers in connection with Mini-Circuits parts only. In that regard, this document is for informational and guideline purposes only. Mini-Circuits assumes no responsibility for errors or omissions in this document or for any information contained herein.

Mini-Circuits may change this document or the Mini-Circuits parts referenced herein (collectively, the "Materials") from time to time, without notice. Mini-Circuits makes no commitment to update or correct any of the Materials, and Mini-Circuits shall have no responsibility whatsoever on account of any updates or corrections to the Materials or Mini-Circuits' failure to do so. Mini-Circuits customers are solely responsible for the products, systems, and applications in which Mini-Circuits parts are incorporated or used. In that regard, customers are responsible for consulting with their own engineers and other appropriate professionals who are familiar with the specific products and systems into which Mini-Circuits' parts are to be incorporated or used so that the proper selection, installation/integration, use and safeguards are made. Accordingly, Mini-Circuits assumes no liability therefore.

In addition, your use of this document and the information contained herein is subject to Mini-Circuits' standard terms of use, which are available at Mini-Circuits' website at www.minicircuits.com/homepage/terms_of_use.html.

Mini-Circuits and the Mini-Circuits logo are registered trademarks of Scientific Components Corporation d/b/a Mini-Circuits. All other third-party trademarks are the property of their respective owners. A reference to any third-party trademark does not constitute or imply any endorsement, affiliation, sponsorship, or recommendation: (i) by Mini-Circuits of such third-party's products, services, processes, or other information; or (ii) by any such third-party of Mini-Circuits or its products, services, processes, or other information.