


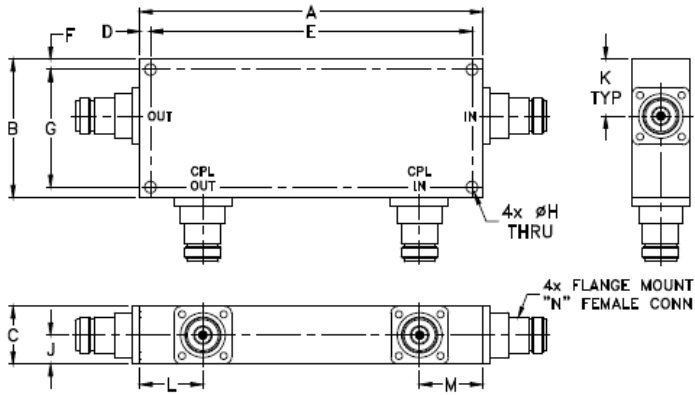
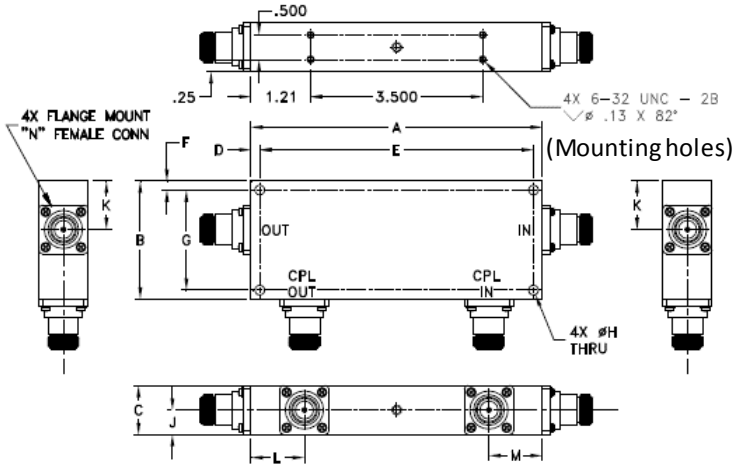
REPLACEMENT PART REFERENCE GUIDE, ZGBDC6-362HP+

AN-30-010

ORIGINAL PART:	ZGBDC6-362HP+	
REPLACEMENT PART:	ZGBDC6-372HP+	

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

MECHANICAL DIMENSIONS

ORIGINAL PART: ZGBDC6-362HP+	REPLACEMENT PART: ZGBDC6-372HP+
<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
Directivity (dB) (600-2700 MHz)	20 Min	18 Min
(2700-3600 MHz)	15.5 Min	14 Min
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:

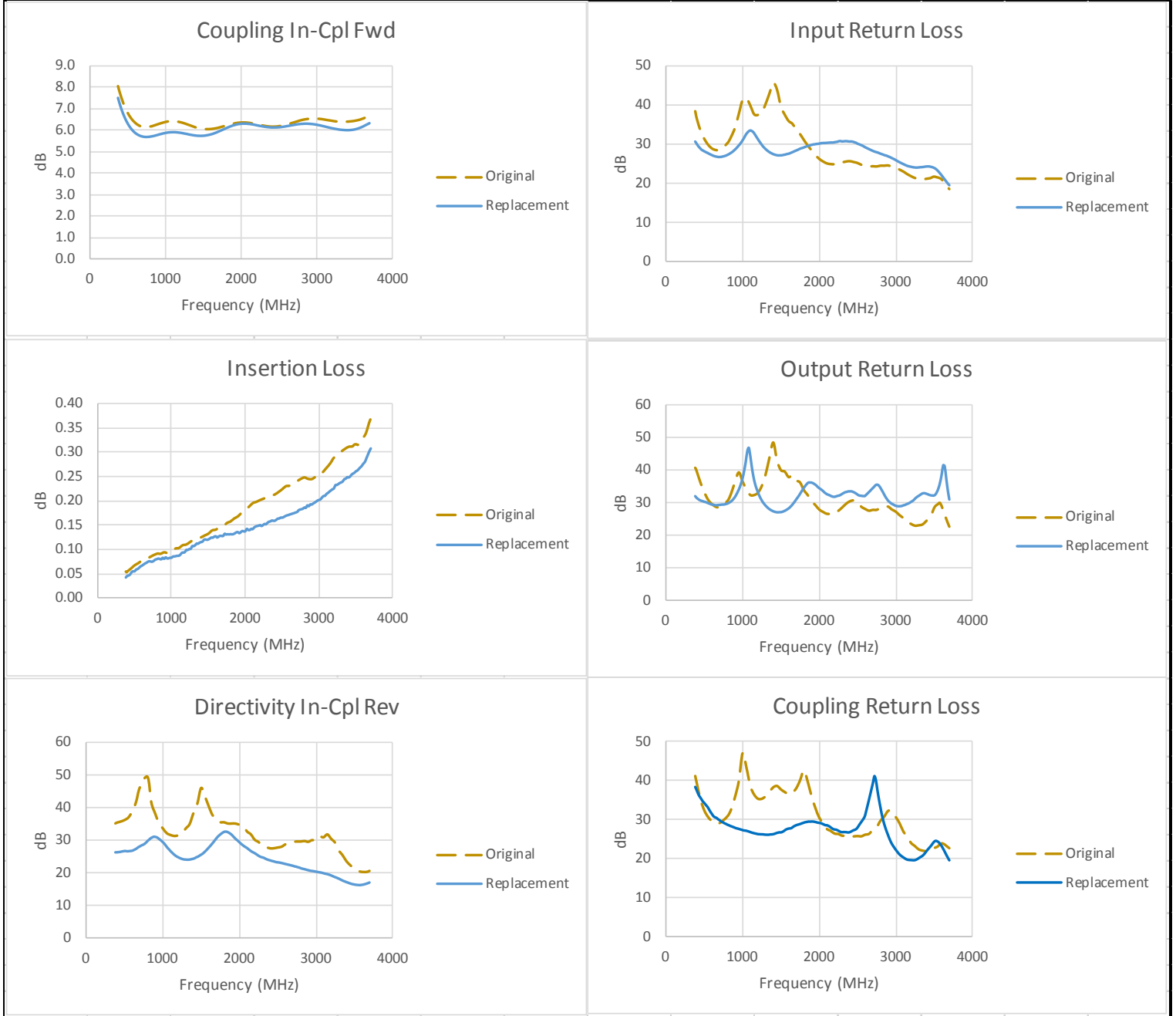
MODEL: ZGBDC6-362HP+ (RF Parameters)

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	6.4	7.4	8.4	5.8	6.9	8.2
	600	2700	6.0	6.4	6.7	5.6	6.2	6.7
	2700	3600	6.3	6.6	6.9	6.0	6.4	6.8
	2700	3700	-	-	-	6.0	6.4	6.9
Coupling Flatness (+/-)	380	600	0.82	0.84	0.87	0.79	0.81	0.83
	600	2700	0.17	0.20	0.27	0.18	0.26	0.38
	2700	3600	0.09	0.12	0.14	0.09	0.12	0.18
	2700	3700	-	-	-	0.11	0.14	0.18
Insertion Loss (dB)	380	600	0.05	0.06	0.09	0.04	0.06	0.08
	600	2700	0.08	0.20	0.32	0.06	0.16	0.27
	2700	3600	0.29	0.36	0.43	0.23	0.29	0.37
	2700	3700	-	-	-	0.23	0.29	0.37
Directivity (dB)	380	600	30.6	35.2	46.9	26.0	33.7	44.5
	600	2700	23.0	33.0	51.9	19.8	31.4	62.3
	2700	3600	18.3	25.3	40.3	14.8	23.1	34.3
	2700	3700	-	-	-	14.6	22.7	34.3
Return Loss Input (dB)	380	600	27.7	34.0	40.8	27.2	34.4	42.7
	600	2700	21.0	30.2	59.8	23.6	33.1	59.6
	2700	3600	18.4	22.3	29.9	19.1	23.9	30.0
	2700	3700	-	-	-	17.9	23.6	30.0
Return Loss Output (dB)	380	600	28.1	35.6	45.8	29.3	36.0	50.8
	600	2700	21.6	30.6	55.2	24.7	33.7	68.6
	2700	3600	19.1	24.7	34.2	22.1	29.7	55.2
	2700	3700	-	-	-	22.1	30.0	55.2
Return Loss Coupling (dB)	380	600	29.5	34.5	42.5	30.1	35.2	43.0
	600	2700	23.9	32.7	51.2	23.3	32.8	65.9
	2700	3600	19.9	25.8	37.7	17.6	24.5	41.2
	2700	3700	-	-	-	17.6	24.3	41.2

3) TYPICAL PERFORMANCE GRAPHS AT ROOM TEMPERATURE:

MODELS: ZGBDC6-362HP+ (Original Part) & ZGBDC6-372HP+ (Replacement Part)





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