

Plug-In

75Ω DC to 32 MHz

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max.

Permanent damage may occur if any of these limits are exceeded.

INPUT	1
OUTPUT	8
GROUND	2,3,4,5,6,7
CASE GROUND	2,3,4,5,6,7

LETTER "W" OVER PIN 2

WCL

TOP VIEW

G
TYP

ØK TYP

1 3 5 7

E/F

2 4 6 8

A/B

BOTTOM VIEW

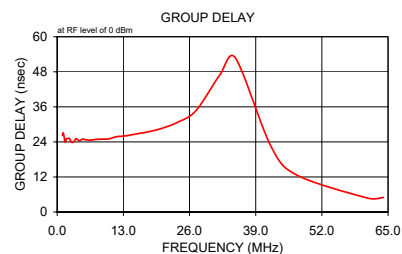
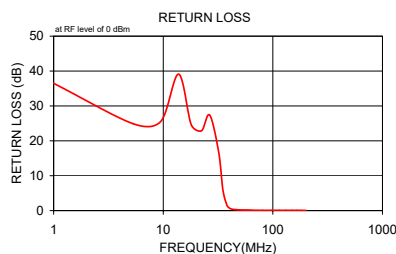
G

J/H

C/D

SIDE VIEW

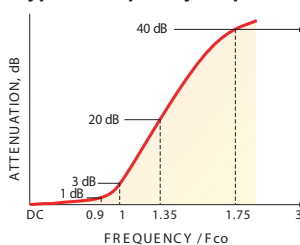
A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	H	J	K		wt
.200	.20	.14	.031		grams
5.08	5.08	3.56	0.79		5.2



- rugged welded case, hermetic
- other standard and custom PLP models available with wide selection of fco

- test equipment
- lab use
- transmitters/receivers
- military/hi-rel applications

PASSBAND (MHz)	fco (MHz) Nom.	STOPBAND (MHz)		VSWR (:1)	
(loss < 1 dB)	(loss 3 dB)	(loss > 20 dB)	(loss > 40 dB)	Passband Typ.	Stopband Typ.
DC-32	35	47-61	61-200	1.7	18



Insertion Loss			Return Loss		Group Delay	
Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)		
	$\bar{x}$	σ				
1.00	0.03	0.00	1.00	26.18		
5.30	0.07	0.01	1.17	27.11		
9.50	0.11	0.00	1.35	25.77		
13.80	0.12	0.00	1.56	23.82		
18.00	0.17	0.01	1.81	25.02		
22.30	0.23	0.01	2.09	25.16		
26.50	0.29	0.02	2.42	25.16		
32.00	0.71	0.12	2.80	23.94		
35.00	2.88	0.37	3.25	23.99		
38.00	8.19	0.35	3.73	25.10		
39.80	12.12	0.33	4.31	24.36		
41.60	16.01	0.34	4.95	24.94		
43.40	19.70	0.36	5.73	24.71		
45.20	23.14	0.38	6.58	24.62		
47.00	26.35	0.40	7.62	24.85		
48.80	29.36	0.40	8.75	24.95		
51.20	33.07	0.40	10.13	25.02		
53.70	36.65	0.39	11.63	25.78		
56.10	39.87	0.40	13.46	26.08		
58.60	42.97	0.44	15.46	26.70		
61.00	45.75	0.46	17.89	27.46		
63.40	48.44	0.46	20.54	28.63		
80.50	64.44	1.22	23.78	30.81		
97.60	73.89	2.14	27.30	34.75		
114.60	74.29	0.87	32.00	47.08		
131.70	75.22	2.28	35.00	52.78		
148.80	74.58	0.98	42.00	22.47		
165.90	73.73	0.66	47.00	12.73		
182.90	75.31	1.49	61.00	4.77		
200.00	74.39	2.85	64.10	4.98		



CASE STYLE: A01

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Notes:

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

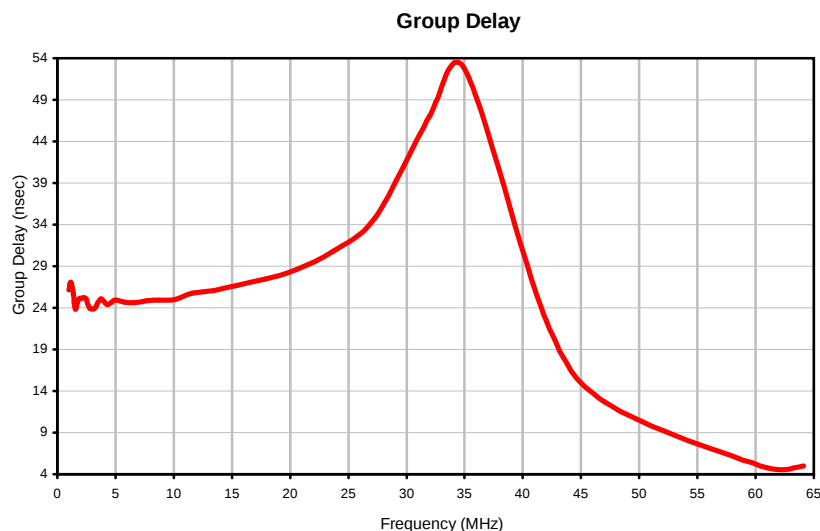
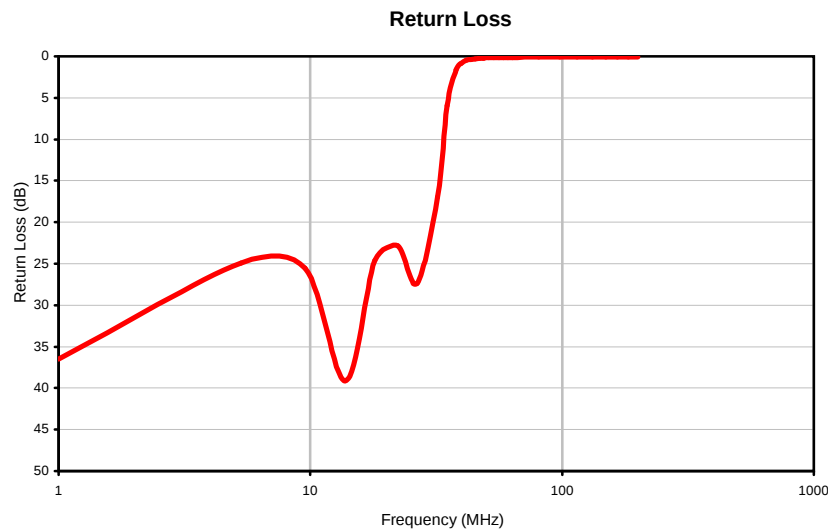
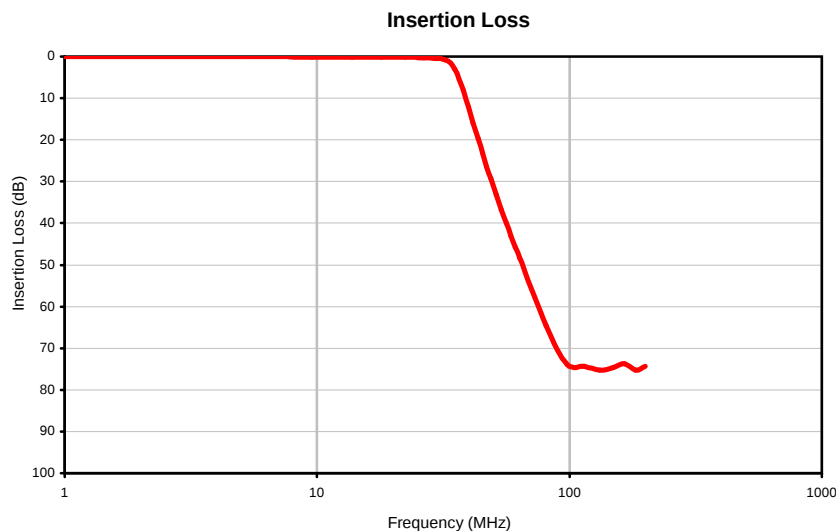
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"). Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit [Mini-Circuits' website at www.minicircuits.com/MCISStore/terms.jsp](http://www.minicircuits.com/MCISStore/terms.jsp)

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
1.00	0.03	36.48	1.00	26.180
5.30	0.07	24.91	1.17	27.110
9.50	0.11	25.56	1.35	25.770
13.80	0.12	39.12	1.56	23.820
18.00	0.17	24.63	1.81	25.020
22.30	0.23	22.84	2.09	25.160
26.50	0.29	27.40	2.42	25.160
32.00	0.71	16.94	2.80	23.940
35.00	2.88	5.94	3.25	23.990
38.00	8.19	1.63	3.73	25.100
39.80	12.12	0.82	4.31	24.360
41.60	16.01	0.49	4.95	24.940
43.40	19.70	0.35	5.73	24.710
45.20	23.14	0.28	6.58	24.620
47.00	26.35	0.24	7.62	24.850
48.80	29.36	0.22	8.75	24.950
51.20	33.07	0.19	10.13	25.020
53.70	36.65	0.17	11.63	25.780
56.10	39.87	0.16	13.46	26.080
58.60	42.97	0.15	15.46	26.700
61.00	45.75	0.14	17.89	27.460
63.40	48.44	0.13	20.54	28.630
80.50	64.44	0.09	23.78	30.810
97.60	73.89	0.08	27.30	34.750
114.60	74.29	0.08	32.00	47.080
131.70	75.22	0.09	35.00	52.780
148.80	74.58	0.08	42.00	22.470
165.90	73.73	0.08	47.00	12.730
182.90	75.31	0.07	61.00	4.770
200.00	74.39	0.07	64.10	4.980

Typical Performance Curves



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



REV. X1
PLP-30-75+
060725
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A01
A04
A05
A06

Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	WT, GRAM
A01	.770 (19.56)	.800 (20.32)	.385 (9.78)	.400 (10.16)	.370 (9.40)	.400 (10.16)	.200 (5.08)	.20 (5.08)	.14 (3.56)	.031 (.79)	5.2
A04			.200 (5.08)	.210 (5.33)							3.7
A05			.240 (6.10)	.250 (6.35)							3.7
A06			.285 (7.24)	.310 (7.87)							5.2

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Header material: C.R.S.
Pin material: #52 alloy.
Cover material: Cupro-Nickel.
- Pin finish: Electro Tin-Silver.
- Insulated spacer available. Request P/N B14-045-01.
- Tolerance on pin diameter $\pm .005$ inch.
- Glass meniscus 0.015 inch max.
- Blue bead indicates Pin 1. Pin numbers do not appear on unit, for reference only.

Mini-Circuits®

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All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Thermal Shock	-55° to 100°C, 100 cycles	MIL-STD-202, Method 107, Condition A-3, except +100°C
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	50g, 11 ms, 1/2-sine, 18 shocks: 3 each direction, each of 3 axes	MIL-STD-202, Method 213, Condition A
Moisture Resistance	10 cycles, 24 hours per cycle	MIL-STD-202, Method 106, Condition A, except 50°C and end point electrical test done within 12 hours
Solderability	10X Magnification	J-STD-002, 95% Coverage
Resistance to Solder Heat	260°C for 10 seconds	MIL-STD-202, Method 210, Condition B
Marking Resistance to Solvents	Isopropyl alcohol + mineral spirits at 25°C; terpene defluxer at 25°C; distilled water + proylene glycol monomethyl ether + monoethanolamine at 63°C to 70°C	MIL-STD-202, Method 215
Terminal Strength	4 1/2 Pound Pull	MIL-STD-202, Method 211, Condition A



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Gross Leak	125°C Bubble Test	MIL-STD-202, Method 112, Condition D
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D