1200 to 1800 MHz

The Big Deal

- Fast attenuation slope for the small frequency span
- Minimal deviation in the attenuation slope
- Surface mount package



CASE STYLE: DV874

Product Overview

REQ-75-182+ is a 50Ω surface mount negative slope equalizer. This model offers excellent performance in the "L band" frequency range of 1200 MHz to 1800 MHz with minimal deviation in the attenuation slope.

Key Features

Feature	Advantages		
Fast attenuation slope	Provide fast attenuation slope for the small frequency span can used in satellite system		
Minimal deviation	Provide minimal deviation in the attenuation slope		
Surface mount package	This surface mount package is very small and it takes small space in the application board.		

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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/MCLStore/terms.jsp

Slope Equalizer

REQ-75-182+

50Ω 1200 to 1800 MHz

Maximum Ratings

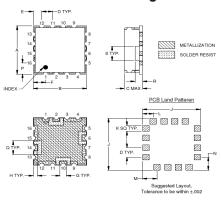
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Input power	+20 dBm

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

Pin Connections

Input	2
Output	10
Ground	1, 3, 4, 5, 7, 8, 9, 11, 12, 13, 15, 16
Not used	6, 14

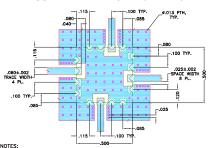
Outline Drawing



Outline Dimensions (inch)

Α	В	С	D	Е	F	G	Н	J	K
.500	.500	.195	.100	.080	.115	.060	.040	.540	.060
12.7	12.7	4.95	2.54	2.03	2.92	1.52	1.02	13.72	1.52
L	M	N	Р	Q	R	S			Wt.
.100	.135	.135	.115	.140	.070	.150			grams
2.54	3.43	3.43	2.92	3.56	1.78	3.81			1.0

Demo Board MCL P/N: TB-686+ Suggested PCB Layout (PL-374)



- E WIDTH IS SHOWN FOR ROGERS (RO4350B) WITH DIELECTRIC THICKNESS
 7*3.002**. COPPER: 1/2 OZ. EACH SIDE.
 OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
 OM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

 DENOTES PCB COPPER LAYOUT WITH SMOBC

 (SOLDER MASK OVER BARE COPPER)

Features

- Fast attenuation slope
- Negative Slope

CASE STYLE: DV874

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

Applications

- L-Band satellite
- Test Equipment
- Lab use

Electrical Specifications at 25°C

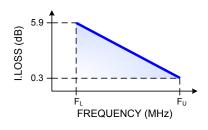
Parameter	Condition	Min.	Тур.	Max.	Units	
Frequency Range	-	1200		1800	MHz	
Incombine Long	1200 MHz	-	10	-	dB	
Insertion Loss	1800 MHz	-	2	-	ав	
VSWR	-	-	1.9	-	:1	

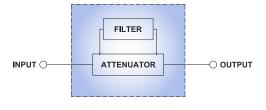
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
1200.0	10.29	1.84	
1250.0	9.49	1.78	
1300.0	8.37	1.73	
1350.0	7.22	1.66	
1400.0	6.18	1.59	
1450.0	5.29	1.52	
1500.0	4.54	1.45	
1525.0	4.21	1.42	
1550.0	3.91	1.39	
1575.0	3.63	1.36	
1600.0	3.38	1.33	
1650.0	2.94	1.28	
1700.0	2.57	1.24	
1750.0	2.25	1.21	
1800.0	1.97	1.19	

Typical Frequency Response

Simplified Functional Schematic

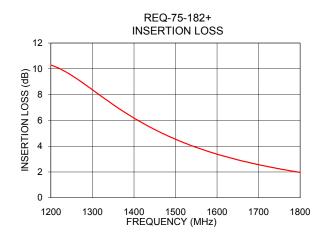


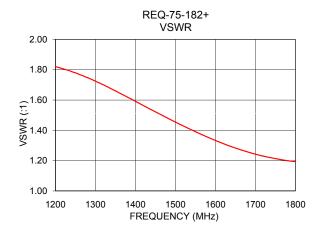


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