

PART NUMBER

KAT177698

REV.

DATE

COMMENTS

INITIAL

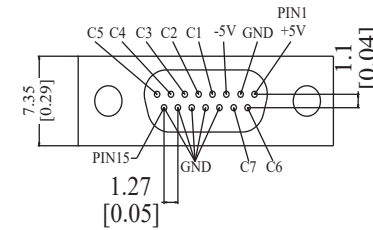
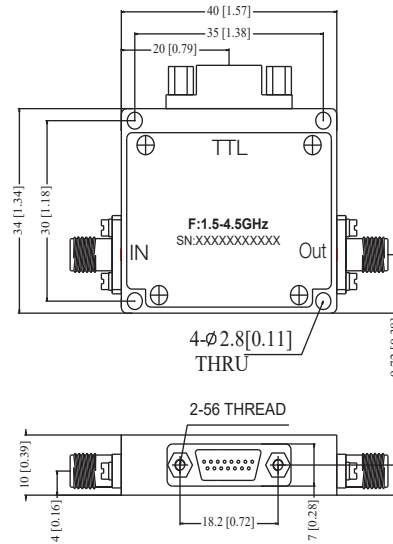
Electrical Data

Impedance	50 Ω
Frequency Range	DC - 4.5 GHz.
Attenuation Range	31.75 dB Max
Attenuation Flatness:	(Referenced to Insertion Loss) ± 1.0 dB
Control Bits	7Bit
Control Step size	0.25dB
Insertion Loss	3 dB Max
Input VSWR	(All States) 1.5 Max
Output VSWR	(All States) 1.5 Max
Input 0.1 dB Compression Point	(P0.1dB) 30dBm
Input	IP3 54 dBm
Switching Speed	250 ns Max
Bias Current	(+5V/-5V) 50/50 mA
Insertion Loss Temperature Coefficient	0.005 $^{\circ}$ C Typ

Sealing Hermetically Sealed (Optional)

Environmental Specifications	
Operational Temperature	-45 $^{\circ}$ C \rightarrow +85 $^{\circ}$ C
Storage Temperature	-55 $^{\circ}$ C \rightarrow +125 $^{\circ}$ C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40 $^{\circ}$ c
Shock	20G for 11msec half sine wave, 3 axis both directions

Absolute Maximum Ratings	
Biassing	+5V/-5V \pm 10%
TTL Control Voltage	0-0.8/ 2.8-5V
RF Input Power	+25dBm



MICRO-D15 (Female)

Truth Table

Control Voltage Input							Attenuation state
C7	C6	C5	C4	C3	C2	C1	
1	1	1	1	1	1	1	Reference IL
1	1	1	1	1	1	0	0.25dB
1	1	1	1	1	0	1	0.5dB
1	1	1	1	0	1	1	1dB
1	1	1	0	1	1	1	2dB
1	1	0	1	1	1	1	4dB
1	0	1	1	1	1	1	8dB
0	1	1	1	1	1	1	16dB
0	0	0	0	0	0	0	31.75dB

Drawing not to scale. Dimensions for reference only

Units: mm (Inches)

Konnect RFWWW.KONNECTRF.COM
1-800-790-5887

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DESCRIPTION

**Absorptive Digital Control Attenuator, Attenuation 31.75 dB,
SMA Female Jack**

CAGE CODE

664U0

SIGNATURE

X

Component
BodyMaterial
AluminumPlating
GoldTHIS DRAWING INCLUDING THE
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