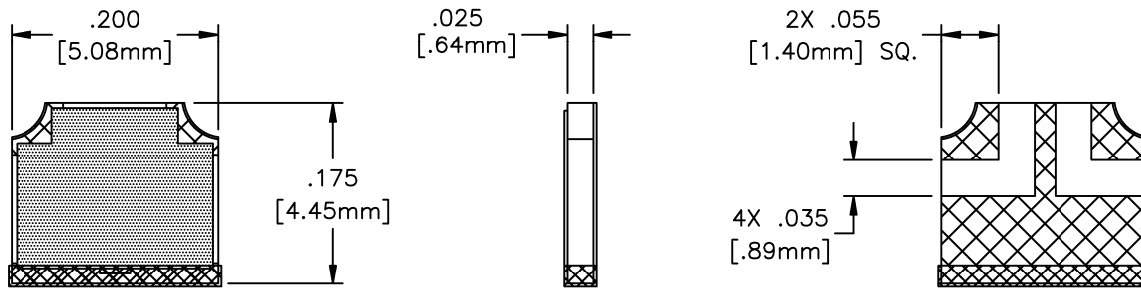


EDD

NOTES:

UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE $\pm .010$ [.254mm]



MATERIALS:
 SUBSTRATE: ALUMINUM NITRIDE
 RESISTIVE FILM: THIN FILM
 PROTECTIVE COATING: POLYMER

FINISH:
 RoHS COMPLIANT
 TERMINALS: SILVER PLATED

TECHNICAL: (ATTENUATOR)
 NOMINAL IMPEDANCE: 50 OHMS
 FREQUENCY RANGE: DC-6.0 GHz
 VSWR (MAX): 1-10 dB
 DC-4 GHZ - 1.25 MAX
 4-6 GHZ - 1.40 MAX
 15 AND 20 dB
 DC-3 GHZ - 1.25 MAX
 3-6 GHZ - 1.50 MAX
 ATTENUATION ACCURACY: SEE TABLE 1
 INPUT POWER: 20 WATTS
 ATTENUATION STABILITY: .0001 dB/dB/°C
 TEMPERATURE COEFFICIENT: ± 125 PPM MAX
 OPERATING TEMPERATURE: -55°C TO +150°C

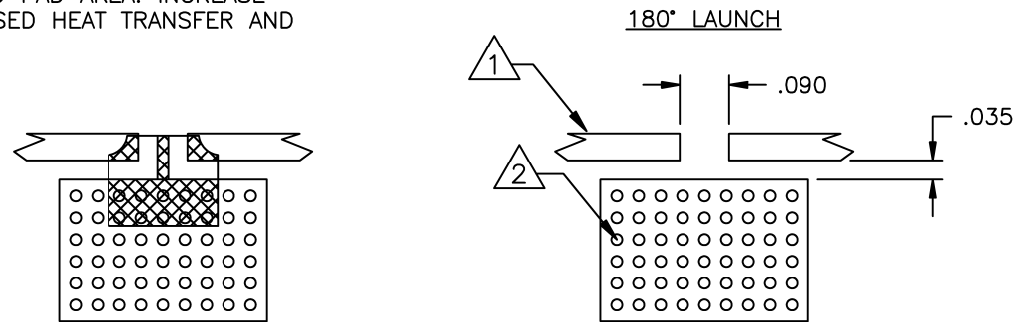
TABLE 1

ATTENUATION ACCURACY				
DB	DC - 2 GHZ	2 - 3 GHZ	3 - 4 GHZ	4 - 6 GHZ
0	-0,+3	-0,+5	-0,+5	-0,+5
1 - 10	± 0.5	± 0.6	± 0.7	± 0.9
15 AND 20	± 0.5	± 0.5	± 1.0	± 1.0

REFERENCE	--		TOLERANCES UNLESS OTHERWISE SPECIFIED	THE INFORMATION CONTAINED HEREIN IS (A) CONSIDERED PROPRIETARY TO FLORIDA RF LABS INC. (B) PROTECTED BY COPYRIGHT OWNED BY FLORIDA RF LABS INC. (C) CONSIDERED A "WORK FOR HIRE" UNDER COPYRIGHT LAW. (D) PROTECTED BY TRADE SECRET LAWS WHICH MAKE ILLEGAL THE MISAPPROPRIATION OF THIS INFORMATION AND (E) IS TO BE USED SOLELY FOR THE PURPOSES WHICH IT IS SUPPLIED. THIS INFORMATION SHALL NOT BE DISCLOSED IN WHOLE OR IN PART, TO ANY PARTY, FOR ANY REASON WITHOUT THE EXPRESS WRITTEN CONSENT OF A QUALIFIED EXECUTIVE OF FLORIDA RF LABS INC.
FINISH	--		FRACT ± XX ± XXX ± XXXX ± DIMENSIONS ARE IN INCHES ANGLES ±5°	
MATERIAL	--		DATE 01/22/2008 DRAWN BY JG APPROVED BY	
EN# 09-F0196	B	5/29/09	FLORIDA RF Labs INC. 8851 SW OLD KANSAS AVE STUART, FL 34997 PHONE NO. (772) 286-9300 FAX NO. (772) 283-5286	
CHANGE DESCRIPTION	REV	DATE	CAGE CODE ID NO. 2Y194 PLOT SCALE 1/1 DRAWING NUMBER 83A7038*F	TITLE SURFACE MOUNT, ATTENUATOR, 20 WATT SHEET 1 OF 2

NOTES:

- ① 50 Ω MICROSTRIP TRANSMISSION LINE. DUT PERFORMANCE WILL VARY DEPENDING ON BOARD. DIFFERENT BOARD MATERIAL AND THICKNESS WILL DICTATE LINE CHARACTERISTICS AFFECTING REACTANCE AT DEVICE TERMINALS. FLORIDA RF LABS TEST BOARD IS DESIGNED ON R03003 0.020 INCH THICK TO GIVE 50 ± 1 Ω TRACE IMPEDANCE.
- ② .01 TO .04 DIAMETER SOLDER FILLED VIA HOLES FOR GROUNDING AND HEAT TRANSFER. VIA HOLES SHOULD OCCUPY AT LEAST 15% OF GROUND PAD AREA. INCREASE VIA HOLE POPULATION FOR INCREASED HEAT TRANSFER AND REDUCING GROUND INDUCTANCE.



SUGGESTED MOUNTING FOR OPTIMAL PERFORMANCE

REFERENCE	—			TOLERANCES UNLESS OTHERWISE SPECIFIED	<small>THE INFORMATION CONTAINED HEREIN IS (A) CONSIDERED PROPRIETARY TO FLORIDA RF LABS INC. (B) PROTECTED BY COPYRIGHT OWNED BY FLORIDA RF LABS INC. (C) CONSIDERED A "WORK FOR HIRE" UNDER COPYRIGHT LAW (D) PROTECTED BY TRADE SECRET LAWS WHICH MAKE ILLEGAL THE MISAPPROPRIATION OF THIS INFORMATION AND (E) IS TO BE USED SOLELY FOR THE PURPOSES WHICH IT IS SUPPLIED. THIS INFORMATION SHALL NOT BE DISCLOSED IN WHOLE OR IN PART, TO ANY PARTY, FOR ANY REASON WITHOUT THE EXPRESS WRITTEN CONSENT OF A QUALIFIED EXECUTIVE OF FLORIDA RF LABS INC.</small>	
FINISH	—			FRACT ± XX ± XXX ± XXXX ± ANGLES ±5°		
MATERIAL	—			DATE 01/22/2008 DRAWN BY JG APPROVED BY		
EN# 09-F0196	B	5/29/09	—	FLORIDA RF Labs INC. 8851 SW OLD KANSAS AVE STUART, FL 34997 PHONE NO. (772) 286-9300 FAX NO. (772) 283-5286		
CHANGE DESCRIPTION	REV	DATE	CAGE CODE ID NO.	PLOT SCALE	DRAWING NUMBER	SHEET
			2Y194	1/1	83A7038*F	2 OF 2