

RF Power Transistor Part Number: HVV1214-140
Evaluation Kit Part Number: HVV1214-140--EK

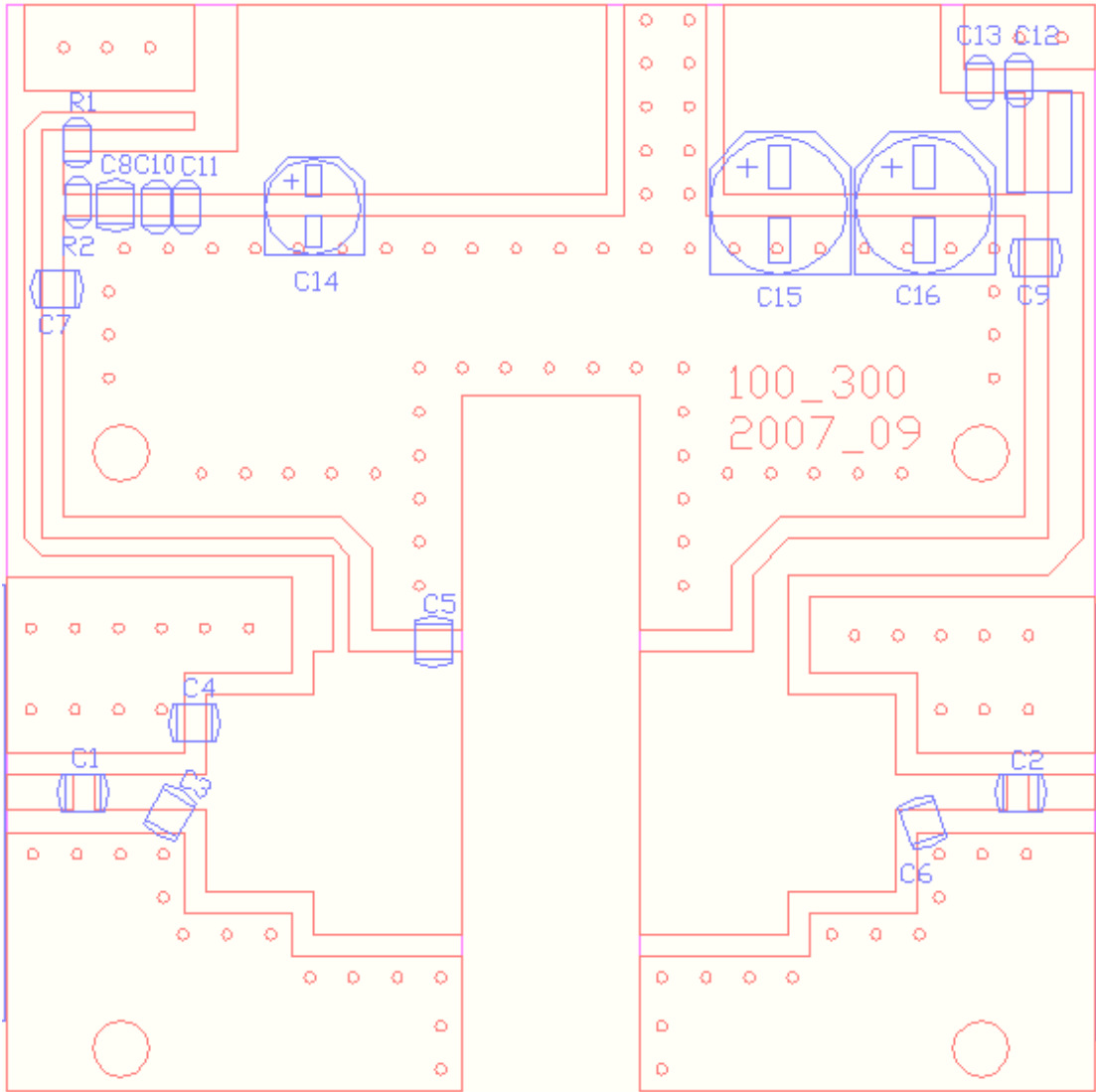
Note: The Gerber file can be downloaded at www.adsemi.com for most test fixtures or contact us at sales@adsemi.com

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HVV1214-140-EK

140 Watts, 50V, 1200-1400MHz
200 μ s, 10% Duty Cycle



PCB Component Placement Diagram

HVV1214-140-EK

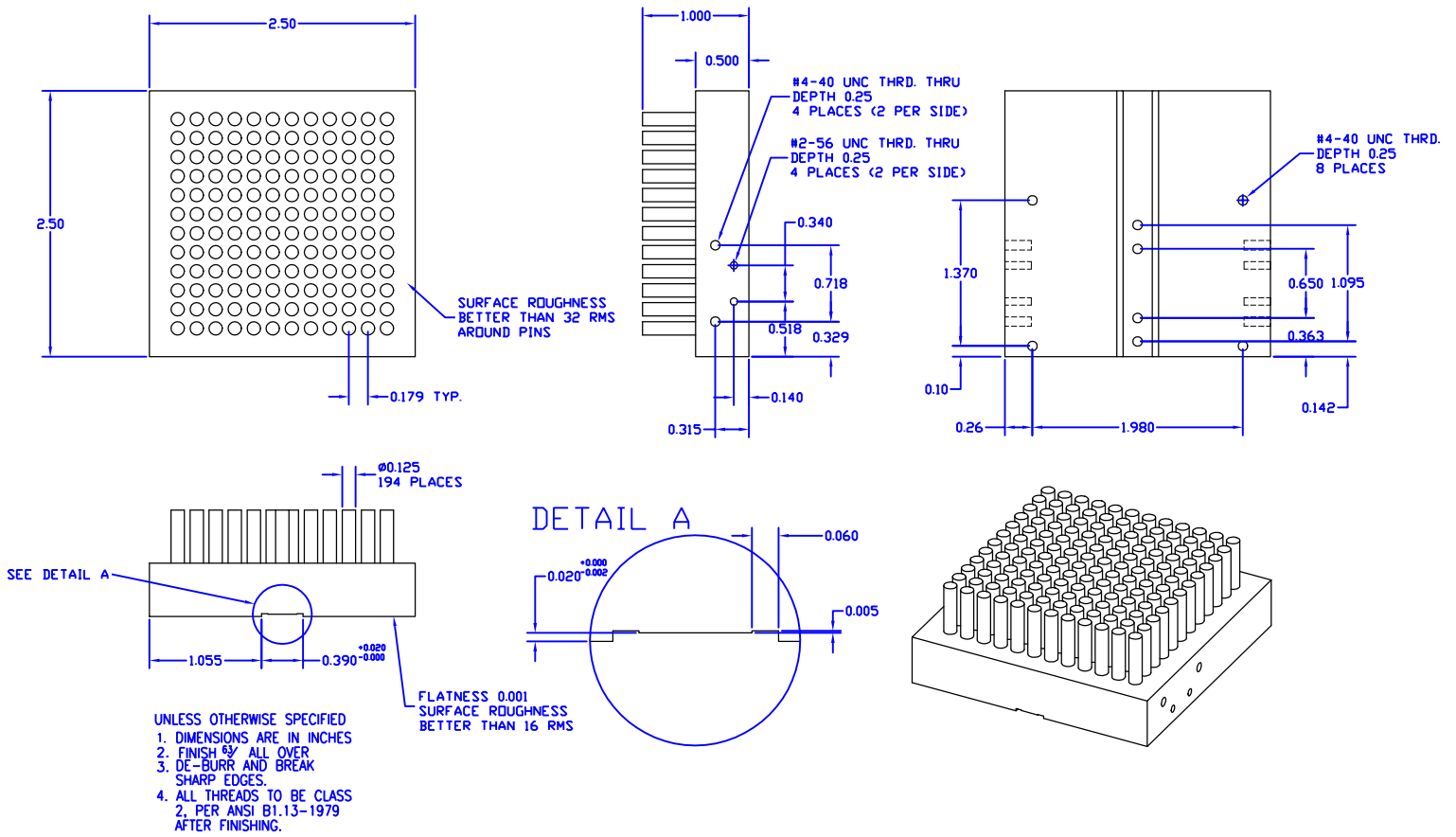
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Part	Description	Part Number	Manufacturer
C1, C2:	100 pF ATC 100B Chip Capacitor	100B101JP500X	ATC
C3:	2.4 pF ATC 100B Chip Capacitor	100B2R4JP500X	ATC
C4:	1.2 Pf ATC 100B Chip Capacitor	100B1R2JP500X	ATC
C5:	3.9 pF ATC 100B Chip Capacitor	100B3R9JP500X	ATC
C6:	2.4 pF ATC 100B Chip Capacitor	100B2R4JP500X	ATC
C7:	15 pF ATC 100B Chip Capacitor	100B150JP500X	ATC
C8,C9:	47 pf ATC 100B Chip Capacitor	100B470JP500X	ATC
C10,C12:	1K pF 100V Chip Capacitor (X7R 1206)	C1206C102K1RACTU	Kemet
C11,C13:	10K pF 100V Chip Capacitor (X7R 1206)	C1206C103K1RACTU	Kemet
C14:	10 uF 63V Elect FK SMD	PCE3479CT-ND	DIGI-KEY
C15, C16:	100 uF 63V Elect FK SMD	PCE3483CT-ND	DIGI-KEY
R1:	10 Ohms Chip Resistor (1206)	ERJ8GEYJ100V	Panasonic
R2:	1 K Ohms Chip Resistor (1206)	ERJ8GEYJ102V	Panasonic
RF Connectors	Type "N" RF connectors	5919CC-TB-7	Coaxicom
DC Drain Conn	Connector Jack Banana Nylon Red	J151-ND	DIGI-KEY
DC Ground Conn.	Connector Jack Banana Nylon Black	J152-ND	DIGI-KEY
DC Gate Conn.	Connector Jack Banana Nylon Green	J153-ND	DIGI-KEY
PCB Board	PCB: Arlon, 30 mils thick, 2.55 Dielectric, 2 oz Copper		DS Electronics
Device Clamp	Cool Innovation Nylon Clamp Foot	FXT000158	Cool Innovation
Heat Sink	Cool Innovations Aluminum Heat Sink	3-252510RS3394	Cool Innovation
S.S. Screws (4)	4-40 X 1/4 Stainless Steel Socket Hex Head	P242393	Copper State Bolt
Alloy Screws (4)	4-40 X 1/2 Alloy Socket Cap screw Hex Head	SCAS-0440-08C	Small Parts Inc
Metal Washer (6)	#4 Washer Zinc PLTD Steel Lock	ZSLW-004-M	Small Parts Inc
Alloy Screws (2)	4-40 X 3/4 Alloy Socket Cap Screw Head	SCAS-0440-12M	Small Parts Inc

Bill of Materials

HVV1214-140-EK

140 Watts, 50V, 1200-1400MHz
200 μ s, 10% Duty Cycle



Heat Sink Drawing

NOTES:

1. MATL: ALUMINUM ALLOY
2. DEBURR SHARP EDGES
3. PLATING: ELECTROLESS NICKEL
4. WEIGHT: TBD