



RN60 RESISTORS (KOhms)			
R20	21.0	R37	1.00
R21	115	R38	200
R22	130	R39	0
R23	20.0	R40	10.0
R24	301	R41	75.0
R25	26.7	R42	TBD
R26	475	R43	75.0
R27	TBD	R44	24.9
R28	115	R45	3.01
R29	100	R46	3.01
R30	OMIT	R47	2.00
R31	100	R48	1.50
R32	150	R49	10.0
R33	31.6	R50	OMIT
R34	2.00	R51	OMIT
R35	182	R52	OMIT
R36	93.1	R53	TBD

- NOTES:**
- For current signal input:
 - Jumper R39
 - Select R40 to give $E_{cmd} = 5.0V_{dc}$ with maximum signal current.
 - Select R24 for desired soft-start time.
 - Factory selected R27.
 - Cut trace for 120° Burst Pulse Profile.
 - Cut trace for soft off.
 - J4 provided for test phase reference inputs
 - Select R9 resistance for +24V control voltage
 - Select R10 CT/rectifier burden resistance to give 2.0 Vdc current signal at rated current with 1.0 A maximum CT secondary current.
 - For open loop operation:
 - Omit U3, BR2, BR3, RN6, D3, D4, C14, C15, C23, R10, R11, R35, R38, R39, R40, R41, R43, R44, and R47.
 - Install JU1
 - Install R32 = 150k for 0/5 V cmd, = 249 k for .85 V to 5.85 V cmd.
 - Change R36 to 47.5k
 - Select R39 to scale the voltage command:
 - R39 = 0 ohm for 0/5 V command
 - R39 = 9.09 kohm for 0/10 V command
 - For 50 Hz operation:
 - Change RN2 to 150k
 - Remove R28.
 - Current command:
 - For on-board current cmd, install R44 and omit R42.
 - For off-board current cmd, install R42 and omit R44.
 - Install JU2 to connect J3-7 to COM.
 - For use with FCLB-1 Fault Current Limiter Board:
 - Omit BR2 and BR3.
 - Jumper pads 1-2 and 3-4 of BR3
 - Install JU3
 - Cut trade and select R53 to provide the desired current limit command offset

16- Typical semiconverter connection diagram:

