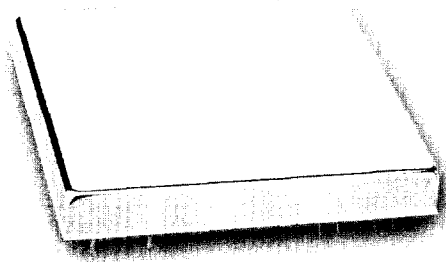


DRG SERIES
30VA RING GENERATORS, 65-85 VRMS



The DRG series of telephone ring generators provides a broad selection of high efficiency, high density isolated units with a fully floating 30VA output. Offering the maximum flexibility to system design engineers, these ringers are available in fixed voltage, fixed frequency versions, with a choice of three output voltages and four frequencies, fixed voltage and digitally programmable frequency versions, adjustable voltage and fixed frequency versions, and an adjustable output voltage, programmable frequency version. Frequency accuracy and stability is ensured by the use of a crystal master oscillator, and particular attention has been paid to maintaining low total harmonic distortion. Units are housed in a 4.0" x 4.0" x 0.7" metal case.

SPECIFICATIONS

Input voltage range	-40 to -72 Vdc
Input current, low line rated load	950 mA
Output voltages	65, 75, 85 VRMS
Output voltage setpoint accuracy	±4.0 VRMS
Output power	30 VA
Output frequencies	16.5, 20, 25, 30, 50 Hz
Output frequency setpoint accuracy	±0.5 Hz
Line regulation Vin min – Vin max Iout rated	±1.0% Vout
Load regulation Vin nom.	±3.0% Vout
Total harmonic distortion	5%
Overload protection, % VA rated	150%
Short circuit protection	Continuous
Remote shutdown	
Shutdown pin high or floating (>3.5V)	Module "On"
Shutdown pin pulled low (<1.8V)	Module "Off"
Remote shutdown reference	Vin negative
Digital frequency programming ¹	
Logic level "0"	<0.7 Vdc
Logic level "1"	>3.5 Vdc
Frequency programming reference	Vout common
Isolation	
Input – output	500 VDC
Input – output resistance	>10 Mohm
Efficiency	80%
Case temperature, operating range	-25 to 100°C
Case temperature, storage range	-40 to 110°C
Humidity max., non-condensing	95%
Safety ¹	UL 1950, CSA 22.2-950
MTBF ¹ (Bellcore TR-NWT-000332)	1.01 x 10 ⁶ Hrs.
Weight (approx.)	9.03 oz. (256 gms)

¹ Consult factory for conditions of acceptance.
¹ MTBF predictions may vary slightly from model to model.
 Specifications typical at 25°C, nominal line, rated output VA into a load with power factor = 1.0, unless otherwise stated. Specifications subject to change without notice.

**For More Information or to
 Place an Order, Please Contact:**



1-888-IPD-CONVerters
 473-2668

DRG SERIES

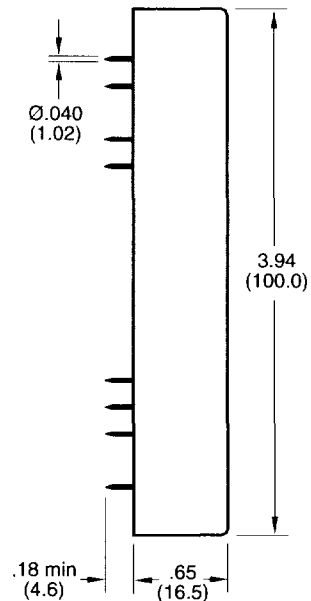
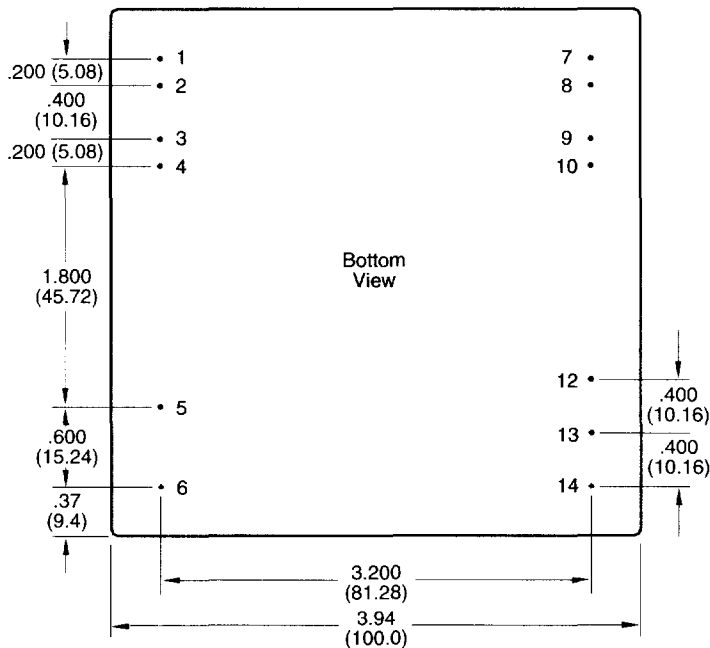
30VA RING GENERATORS, 65-85 VRMS

Output Voltage, VRMS	Output Current, mA	Frequency Hz	Model Number
65	465	16.5	DRG48V65F16.5
65	465	20	DRG48V65F20
65	465	25	DRG48V65F25
65	465	30	DRG48V65F30
75	400	16.5	DRG48V75F16.5
75	400	20	DRG48V75F20
75	400	25	DRG48V75F25
75	400	30	DRG48V75F30
85	355	16.5	DRG48V85F16.5
85	355	20	DRG48V85F20
85	355	25	DRG48V85F25
85	355	30	DRG48V85F30
Adjustable	(30VA max.)	16.5	DRG48VF16.5
Adjustable	(30VA max.)	20	DRG48VF20
Adjustable	(30VA max.)	25	DRG48VF25
Adjustable	(30VA max.)	30	DRG48VF30
65	465	Programmable	DRG48V65F
75	400	Programmable	DRG48V75F
85	355	Programmable	DRG48V85F
Adjustable	(30VA max.)	Programmable	DRG48VF

Digital Frequency Programming		
Pin 11 Logic Level	Pin 12 Logic Level	Logic Level Frequency, Hz
1	1	16.5
0	0	20
0	1	25
1	0	30

Pin	Function	Tolerances (unless otherwise specified)	
		Inches	(Millimeters)
1	+VIN		
2	+VIN	.XX ± .020	.X ± 0.5
3	-VIN	.XXX ± .010	.XX ± .25
4	-VIN		
5	Case	Pin:	
6	Enable	±.002	±.05
7	VOUT Phase		
8	VOUT Phase		
9	VOUT Common		
10	VOUT Common		
11	Freq. Set 1*		
12	Freq. Set 2*		
13	VOUT Adj**		
14	No Connection		

* Pins for user-settable functions are fitted as needed
 ** Vout adjust ia referenced in Vout common



For optional 0.11 pin length, consult factory.