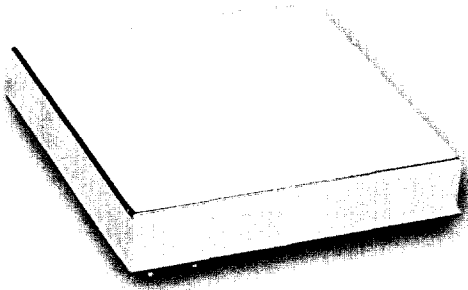


**CRG SERIES**  
**12VA RING GENERATORS, 65-85 VRMS**



The CRG series of DC to AC converters provides economical telephone ring generators. The series employs a switching converter to provide 12VA output power at efficiencies over 70%. All models have fully floating outputs and are designed to operate from a -48V source. Three different preset output voltages are available at any of five frequencies. Particular attention has been paid to maintaining low total harmonic distortion. Units are housed in a 3.0" x 3.0" x 0.55" metal case.

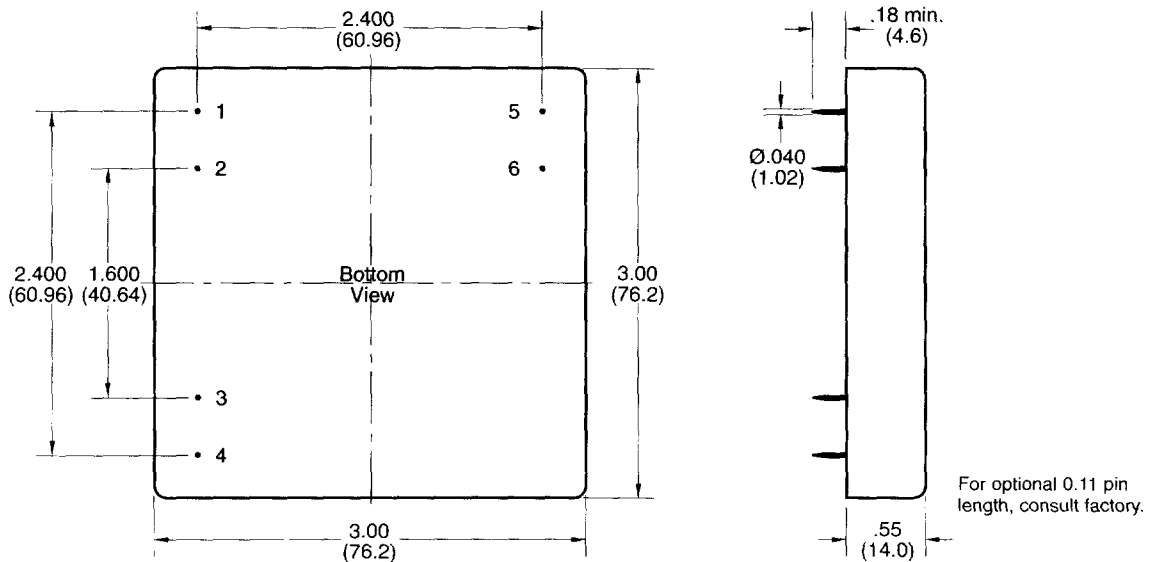
**SPECIFICATIONS**

Input voltage range	-40 to -60 Vdc
Input current, low line rated load	430 mA
Output voltages	65, 75, 85 VRMS
Output voltage setpoint accuracy	±4.0 VRMS
Output power	12 VA
Output frequencies	16.5, 20, 25, 30, 50 Hz
Output frequency setpoint accuracy	±2.0 Hz
Line regulation Vin min – Vin max lout rated	±1.0% Vo
Load regulation Vin nom.	±3.0% Vo
Total harmonic distortion	5%
Overload protection VA rated	150%
Short circuit protection characteristic	Continuous
Remote shutdown logic	
Shutdown pin high or floating (>3.5V)	Module "On"
Shutdown pin pulled low (<1.8V)	Module "Off"
Remote shutdown reference	Vin negative
Isolation	
Input – output	500 VDC
Input – output resistance	>10 Mohm
Efficiency	70%
Case temperature, operating range	-25 to 85°C
Case temperature, storage range	-40 to 125°C
Humidity max., non-condensing	95%
Safety <sup>1</sup>	UL 1950, CSA 22.2-950
MTBF <sup>1</sup> (Bellcore TR-NWT-000332)	1.3 x 106 Hrs.
Weight (approx.)	4.53 oz. (128.4 gms)

<sup>1</sup> Consult factory for conditions of acceptance.  
<sup>1</sup> MTBF predictions may vary slightly from model to model.  
 Specifications typical at 25°C, nominal line, and full load - unless otherwise stated.  
 Specifications subject to change without notice.

**CRG SERIES**  
**12VA RING GENERATORS, 65-85 VRMS**

Output Voltage, Vrms	Output Current, mA	Frequency Hz	Model Number
65	185	16.5	CRG48V65F16.5
65	185	20	CRG48V65F20
65	185	25	CRG48V65F25
65	185	30	CRG48V65F30
65	185	50	CRG48V65F50
75	160	16.5	CRG48V75F16.5
75	160	20	CRG48V75F20
75	160	25	CRG48V75F25
75	160	30	CRG48V75F30
75	160	50	CRG48V75F50
85	141	16.5	CRG48V85F16.5
85	141	20	CRG48V85F20
85	141	25	CRG48V85F25
85	141	30	CRG48V85F30
85	141	50	CRG48V85F50



Pin	Function	Tolerances (unless otherwise specified)	
		Inches	(Millimeters)
1	+VIN		
2	-VIN	.XX ± .020	.X ± 0.5
3	Case	.XXX ± .010	.XX ± .25
4	Shutdown		
5	Output common	<b>Pin:</b> ±.002	±.05
6	+VOUT		

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



**1-888-IPD-CONverters**  
 473-2668