



Package 1 Size: 0.60 x 0.31 x 0.29 inches
Package 2 Size: 0.60 x 0.31 x 0.33 inches
Weight: 0.06oz (1.8g)

FEATURES

- 1 Watt Output Power
- RoHS Compliant
- Unregulated Single & Dual Outputs
- High I/O Isolation: 3000VDC
- No External Components Required
- -40°C to +85°C Operating Temperature
- 22-PIN SMT Package and Industry Standard Pin-out
- High Efficiency up to 80%
- Recognized by UL60950-1
- MTBF > 3,500,000 Hours

DESCRIPTION

The RC series of 1 watt DC/DC power converters are specially designed to provide high levels of isolation in a 22-PIN SMT package. This series consists of 50 models with nominal input voltages of 3.3V, 5V, 9V, 12V, and 15V and standard unregulated output voltages of 3.3V, 5V, 9V, 12V, and 15V in both single and dual output configurations. The RC series is highly suitable for high speed SMT pick-and-place machine operation. The operating temperature range of -40°C to +85°C is ideal for designers requiring industrial temperature operation. The RC series is RoHS compliant and has UL60950-1 safety approvals.

SPECIFICATIONS: RC SER	RIES							
All specifications		out Voltage, and Maximum Output C specifications based on technologic		erwise note	d.			
SPECIFICATION	-	CONDITIONS	Min	Тур	Max	Unit		
INPUT SPECIFICATIONS	123	CONDITIONS	171111	1 9 P	IVICA	Offic		
Input Voltage Range	3.3VDC nominal input model	3.3VDC nominal input models			3.63			
	5VDC nominal input models	-	2.97 4.5	3.3 5	5.5			
	9VDC nominal input models	8.1	9	9.9	VDC			
	12VDC nominal input models	10.8	12	13.2				
	15VDC nominal input models	13.5	15	16.5				
Input Filter	·			capa	citor			
OUTPUT SPECIFICATIONS	<u> </u>		,					
Output Voltage				See 7	Гable			
Output Voltage Tolerance	100% full load				±5	%		
Line Regulation	For Vin change of 1%			1.2		%		
		3.3 VDC output models		15				
		5VDC output models			12	%		
Load Regulation	10% to 100% full load	9VDC output models			8.0			
		12 VDC output models			8.5			
		15VDC output models			7.0			
Output Current				See 7	Гable			
Output Power					1	W		
Minimum Load			10			%		
Ripple & Noise	20MHz limited bandwidth	20MHz limited bandwidth			75	mVp-p		
Transient Response Setting Time	50% load step change		350		μs			
PROTECTION				<u>'</u>				
Short Circuit Protection				noi	ne			
GENERAL SPECIFICATIONS								
Efficiency				See 7	Гable			
Switching Frequency	Nominal input and full load			100		KHz		
Isolation Voltage (Input to Output)			3000			VDC		
Isolation Resistance	500VDC		1000			ΜΩ		
ENVIRONMENTAL SPECIFICATION								
Operating Ambient Temperature	See derating curve		-40		+85	°C		
Humidity	Non-condensing				95	% RH		
Cooling				Free air c	onvection			
MTBF	MIL-HDBK-217F at 25°C, gro	ound benign	3,500,000			hours		
PHYSICAL SPECIFICATIONS					_			
Case Material					DAP			
Weight	Package 1 & Package 2		0.06oz (1.8g)					
Dimensions (L x W x H)	Package 1		(1	0.60 x 0.31 x 0.29 inches (15.24 x 8.0 x 7.30 mm)				
,	Package 2	Package 2		0.60 x 0.31 x 0.33 inches (15.24 x 8.0 x 8.50 mm)				
SAFETY								
Safety Approvals				UL609	950-1			

^{*}Due to advances in technology, specifications subject to change without notice.



			MODE	L SELECT	TION TABL	E.			
SINGLE OUTPUT MODELS									
Model Number	Input Voltage	Output Voltage	Output	Current	Load Reg.	Ripple &	Output Power	Efficiency ⁽²⁾	Package
	input voitage		Min ⁽¹⁾	Max	•	Noise	· ·		Туре
RC33S33-303NH		3.3 VDC	30.3mA	303mA	15%	75mVp-p	1W	65%	1
RC33S5-200NH	3.3 VDC	5 VDC	20mA	200mA	12%	75mVp-p	1W	70%	1
RC33S9-112NH	(2.97 - 3.63	9 VDC	11.2mA	112mA	8.0%	75mVp-p	1W	75%	1
RC33S12-83NH	VDC)	12 VDC	8.4mA	84mA	8.5%	75mVp-p	1W	78%	2
RC33S15-67NH		15 VDC	6.7mA	67mA	7.0%	75mVp-p	1W	80%	2
RC5S33-303NH		3.3 VDC	30.3mA	303mA	15%	75mVp-p	1W	65%	1
RC5S5-200NH	5 VDC	5 VDC	20mA	200mA	12%	75mVp-p	1W	70%	1
RC5S9-112NH	(4.5 - 5.5 VDC)	9 VDC	11.2mA	112mA	8.0%	75mVp-p	1W	75%	1
RC5S12-83NH	,	12 VDC	8.4mA	84mA	8.5%	75mVp-p	1W	78%	2
RC5S15-67NH		15 VDC	6.7mA	67mA	7.0%	75mVp-p	1W	80%	2
RC9S33-303NH	_	3.3 VDC	30.3mA	303mA	15%	75mVp-p	1W	65%	1
RC9S5-200NH	9 VDC	5 VDC	20mA	200mA	12%	75mVp-p	1W	70%	1
RC9S9-112NH	(8.1 - 9.9 VDC)	9 VDC	11.2mA	112mA 84mA	8.0%	75mVp-p	1W 1W	75% 78%	2
RC9S12-83NH RC9S15-67NH	_ ` ' '	12 VDC 15 VDC	8.4mA 6.7mA	67mA	8.5% 7.0%	75mVp-p 75mVp-p	1W	80%	2
RC12S33-303NH		3.3 VDC	30.3mA	303mA	15%	75mVp-p	1W	65%	2
RC12S5-200NH	12 VDC	5 VDC	20mA	200mA	12%	75mVp-p	1W	70%	2
RC12S9-112NH	(10.8 - 13.2	9 VDC	11.2mA	112mA	8.0%	75mVp-p	1W	75%	2
RC12S12-83NH	VDC)	12 VDC	8.4mA	84mA	8.5%	75mVp-p	1W	78%	2
RC12S15-67NH	_ VDO)	15 VDC	6.7mA	67mA	7.0%	75mVp-p	1W	80%	2
RC24S33-303NH		3.3 VDC	30.3mA	303mA	15%	75mVp-p	1W	65%	2
RC24S5-200NH	15 VDC	5 VDC	20mA	200mA	12%	75mVp-p	1W	70%	2
RC24S9-112NH	(13.5 - 16.5	9 VDC	11.2mA	112mA	8.0%	75mVp-p	1W	75%	2
RC24S12-83NH	VDC)	12 VDC	8.4mA	84mA	8.5%	75mVp-p	1W	78%	2
RC24S15-67NH	- '	15 VDC	6.7mA	67mA	7.0%	75mVp-p	1W	80%	2
			DUA	AL OUTPUT	MODELS				
Model Number	Input Voltage	Output Voltage		Current	Load Reg.	Ripple &	Output Power	Efficiency ⁽²⁾	Package
	put remage		Min ⁽¹⁾	Max	J	Noise	· ·		Туре
RC33D33-150NH	0.01/00	±3.3 VDC	±15mA	±150mA	15%	75mVp-p	1W	65%	1
RC33D5-100NH	3.3 VDC	±5 VDC	±10mA					700/	
RC33D9-55NH		0.1/00		±100mA	12%	75mVp-p	1W	70%	1
RC33D12-42NH	(2.97 - 3.63	±9 VDC	±5.6mA	±56mA	8.0%	75mVp-p	1W	75%	1
	(2.97 - 3.63 VDC)	±12 VDC	±5.6mA ±4.2mA	±56mA ±42mA	8.0% 8.5%	75mVp-p 75mVp-p	1W 1W	75% 78%	1 2
RC33D15-33NH		±12 VDC ±15 VDC	±5.6mA ±4.2mA ±3.4mA	±56mA ±42mA ±34mA	8.0% 8.5% 7.0%	75mVp-p 75mVp-p 75mVp-p	1W 1W 1W	75% 78% 80%	1 2 2
RC5D33-150NH		±12 VDC ±15 VDC ±3.3 VDC	±5.6mA ±4.2mA ±3.4mA ±15mA	±56mA ±42mA ±34mA ±150mA	8.0% 8.5% 7.0% 15%	75mVp-p 75mVp-p 75mVp-p 75mVp-p	1W 1W 1W 1W	75% 78% 80% 65%	1 2 2 1
RC5D33-150NH RC5D5-100NH		±12 VDC ±15 VDC ±3.3 VDC ±5 VDC	±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA	±56mA ±42mA ±34mA ±150mA ±100mA	8.0% 8.5% 7.0% 15% 12%	75mVp-p 75mVp-p 75mVp-p 75mVp-p 75mVp-p	1W 1W 1W 1W	75% 78% 80% 65% 70%	1 2 2 1 1
RC5D33-150NH RC5D5-100NH RC5D9-55NH	VDC)	±12 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC	±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA	±56mA ±42mA ±34mA ±150mA ±100mA ±56mA	8.0% 8.5% 7.0% 15% 12% 8.0%	75mVp-p 75mVp-p 75mVp-p 75mVp-p 75mVp-p 75mVp-p	1W 1W 1W 1W 1W	75% 78% 80% 65% 70% 75%	1 2 2 1 1 1
RC5D33-150NH RC5D5-100NH RC5D9-55NH RC5D12-42NH	VDC) 5 VDC	±12 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC ±12 VDC	±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA ±4.2mA	±56mA ±42mA ±34mA ±150mA ±100mA ±56mA ±42mA	8.0% 8.5% 7.0% 15% 12% 8.0% 8.5%	75mVp-p 75mVp-p 75mVp-p 75mVp-p 75mVp-p 75mVp-p 75mVp-p	1W 1W 1W 1W 1W 1W	75% 78% 80% 65% 70% 75% 78%	1 2 2 1 1 1 2
RC5D33-150NH RC5D5-100NH RC5D9-55NH RC5D12-42NH RC5D15-33NH	VDC) 5 VDC	±12 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC ±12 VDC ±15 VDC	±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA ±4.2mA ±3.4mA	±56mA ±42mA ±34mA ±150mA ±100mA ±56mA ±42mA ±34mA	8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0%	75mVp-p 75mVp-p 75mVp-p 75mVp-p 75mVp-p 75mVp-p 75mVp-p 75mVp-p	1W 1W 1W 1W 1W 1W 1W	75% 78% 80% 65% 70% 75% 78% 80%	1 2 2 1 1 1 2 2
RC5D33-150NH RC5D5-100NH RC5D9-55NH RC5D12-42NH RC5D15-33NH RC9D33-150NH	5 VDC (4.5 - 5.5 VDC)	±12 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC ±12 VDC ±15 VDC ±3.3 VDC	±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA ±4.2mA ±3.4mA ±15mA	±56mA ±42mA ±34mA ±150mA ±100mA ±56mA ±42mA ±34mA ±150mA	8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0%	75mVp-p 75mVp-p 75mVp-p 75mVp-p 75mVp-p 75mVp-p 75mVp-p 75mVp-p 75mVp-p	1W 1W 1W 1W 1W 1W 1W 1W	75% 78% 80% 65% 70% 75% 78% 80% 65%	1 2 2 1 1 1 2 2
RC5D33-150NH RC5D5-100NH RC5D9-55NH RC5D12-42NH RC5D15-33NH RC9D33-150NH RC9D5-100NH	5 VDC (4.5 - 5.5 VDC)	±12 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC ±12 VDC ±15 VDC ±3.3 VDC ±5 VDC	±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA	±56mA ±42mA ±34mA ±150mA ±100mA ±56mA ±42mA ±34mA ±150mA ±100mA	8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0% 15% 12%	75mVp-p	1W 1W 1W 1W 1W 1W 1W 1W 1W	75% 78% 80% 65% 70% 75% 78% 80% 655% 70%	1 2 2 1 1 1 2 2 1
RC5D33-150NH RC5D5-100NH RC5D9-55NH RC5D12-42NH RC5D15-33NH RC9D33-150NH RC9D5-100NH RC9D9-55NH	5 VDC (4.5 - 5.5 VDC)	±12 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC ±12 VDC ±15 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC	±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA	±56mA ±42mA ±34mA ±150mA ±100mA ±56mA ±42mA ±34mA ±150mA ±100mA	8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0% 15% 12% 8.0%	75mVp-p	1W 1W 1W 1W 1W 1W 1W 1W 1W 1W	75% 78% 80% 65% 70% 75% 78% 80% 655% 70% 75%	1 2 2 1 1 1 2 2 1 1
RC5D33-150NH RC5D5-100NH RC5D9-55NH RC5D12-42NH RC5D15-33NH RC9D33-150NH RC9D5-100NH RC9D9-55NH RC9D12-42NH	5 VDC (4.5 - 5.5 VDC)	±12 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC ±12 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC ±12 VDC	±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA ±4.2mA ±15mA ±10mA ±10mA ±5.6mA ±4.2mA	±56mA ±42mA ±34mA ±150mA ±100mA ±56mA ±42mA ±150mA ±100mA ±56mA ±42mA	8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0% 15% 12% 8.0% 8.5%	75mVp-p	1W 1W 1W 1W 1W 1W 1W 1W 1W 1W	75% 78% 80% 65% 70% 75% 78% 80% 655% 70% 75% 78%	1 2 2 1 1 1 2 2 1 1 1 2
RC5D33-150NH RC5D5-100NH RC5D9-55NH RC5D12-42NH RC5D15-33NH RC9D33-150NH RC9D5-100NH RC9D9-55NH	5 VDC (4.5 - 5.5 VDC)	±12 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC ±12 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC ±12 VDC ±15 VDC	±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA ±4.2mA ±4.2mA	±56mA ±42mA ±34mA ±150mA ±100mA ±56mA ±42mA ±34mA ±150mA ±100mA	8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0% 15% 12% 8.0%	75mVp-p	1W 1W 1W 1W 1W 1W 1W 1W 1W 1W 1W	75% 78% 80% 65% 70% 75% 78% 80% 655% 70% 75%	1 2 2 1 1 1 2 2 1 1 1 2 2
RC5D33-150NH RC5D5-100NH RC5D9-55NH RC5D12-42NH RC5D15-33NH RC9D33-150NH RC9D5-100NH RC9D9-55NH RC9D12-42NH RC9D15-33NH	5 VDC (4.5 - 5.5 VDC) 9 VDC (8.1 - 9.9 VDC)	±12 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC ±12 VDC ±15 VDC ±15 VDC ±15 VDC ±5 VDC ±9 VDC ±12 VDC ±15 VDC ±15 VDC ±15 VDC ±15 VDC	±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA ±4.2mA ±15mA ±10mA ±5.6mA ±4.2mA ±3.4mA ±4.2mA	±56mA ±42mA ±34mA ±150mA ±100mA ±56mA ±42mA ±150mA ±100mA ±56mA ±42mA ±34mA ±150mA	8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0%	75mVp-p	1W 1	75% 78% 80% 65% 70% 75% 78% 80% 65% 70% 75% 78% 80% 65%	1 2 2 1 1 1 2 2 1 1 1 2 2 2 2 2 2
RC5D33-150NH RC5D5-100NH RC5D9-55NH RC5D12-42NH RC5D15-33NH RC9D33-150NH RC9D5-100NH RC9D9-55NH RC9D12-42NH RC9D15-33NH RC12D33-150NH	9 VDC (8.1 - 9.9 VDC)	±12 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC ±12 VDC ±15 VDC ±15 VDC ±15 VDC ±5 VDC ±9 VDC ±12 VDC ±15 VDC ±15 VDC ±15 VDC ±5 VDC ±3.3 VDC ±5 VDC	±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA ±4.2mA ±4.2mA	±56mA ±42mA ±34mA ±150mA ±100mA ±56mA ±42mA ±150mA ±150mA ±100mA ±56mA ±42mA ±34mA	8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0% 15% 12%	75mVp-p	1W 1W 1W 1W 1W 1W 1W 1W 1W 1W 1W	75% 78% 80% 65% 70% 75% 78% 80% 655% 70% 75% 78% 80%	1 2 2 1 1 1 2 2 1 1 1 2 2 2 2 2
RC5D33-150NH RC5D5-100NH RC5D9-55NH RC5D12-42NH RC5D15-33NH RC9D33-150NH RC9D5-100NH RC9D9-55NH RC9D12-42NH RC9D15-33NH RC12D33-150NH RC12D33-150NH	9 VDC (4.5 - 5.5 VDC) 9 VDC (8.1 - 9.9 VDC) 12 VDC (10.8 - 13.2	±12 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC ±12 VDC ±15 VDC ±5 VDC ±5 VDC ±5 VDC ±12 VDC ±15 VDC ±15 VDC ±15 VDC ±15 VDC ±15 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC	±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA ±4.2mA ±15mA ±10mA ±5.6mA ±4.2mA ±3.4mA ±15mA ±15mA ±15mA ±15mA	±56mA ±42mA ±34mA ±150mA ±100mA ±56mA ±42mA ±150mA ±100mA ±56mA ±42mA ±34mA ±150mA ±150mA ±150mA	8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0% 15% 12% 8.0%	75mVp-p	1W 1	75% 78% 80% 65% 70% 75% 78% 80% 65% 70% 75% 78% 80% 65% 70%	1 2 2 1 1 1 2 2 1 1 1 2 2 2 2 2 2 2 2
RC5D33-150NH RC5D5-100NH RC5D9-55NH RC5D12-42NH RC5D15-33NH RC9D33-150NH RC9D5-100NH RC9D9-55NH RC9D12-42NH RC9D15-33NH RC12D33-150NH RC12D5-100NH RC12D5-100NH	9 VDC (8.1 - 9.9 VDC)	±12 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC ±12 VDC ±15 VDC ±5 VDC ±5 VDC ±5 VDC ±12 VDC ±15 VDC ±12 VDC ±15 VDC ±15 VDC ±15 VDC ±23.3 VDC ±3.3 VDC ±4.5 VDC ±4.5 VDC ±4.5 VDC ±5 VDC ±5 VDC ±5 VDC ±9 VDC ±12 VDC	±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA ±4.2mA ±3.4mA ±15mA ±15mA	±56mA ±42mA ±34mA ±150mA ±100mA ±56mA ±42mA ±150mA ±100mA ±56mA ±42mA ±34mA ±150mA ±150mA	8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0% 15% 12%	75mVp-p	1W 1	75% 78% 80% 65% 70% 75% 78% 80% 65% 70% 75% 78% 80% 65% 70% 75%	1 2 2 1 1 1 2 2 1 1 1 2 2 2 2 2 2 2
RC5D33-150NH RC5D5-100NH RC5D9-55NH RC5D12-42NH RC5D15-33NH RC9D33-150NH RC9D5-100NH RC9D9-55NH RC9D12-42NH RC9D15-33NH RC12D33-150NH RC12D5-100NH RC12D5-100NH RC12D5-55NH	9 VDC (4.5 - 5.5 VDC) 9 VDC (8.1 - 9.9 VDC) 12 VDC (10.8 - 13.2	±12 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC ±12 VDC ±15 VDC ±5 VDC ±5 VDC ±5 VDC ±12 VDC ±15 VDC ±15 VDC ±15 VDC ±15 VDC ±15 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC	±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA ±4.2mA ±3.4mA ±10mA ±5.6mA ±4.2mA ±3.4mA ±15mA ±15mA ±15mA ±15mA ±2.6mA ±4.2mA	±56mA ±42mA ±34mA ±150mA ±100mA ±56mA ±42mA ±150mA ±100mA ±56mA ±42mA ±150mA ±150mA ±42mA ±150mA ±150mA	8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0% 15% 12% 8.0%	75mVp-p	1W 1	75% 78% 80% 65% 70% 75% 78% 80% 65% 70% 75% 78% 80% 65% 70% 75% 78%	1 2 2 1 1 1 2 2 1 1 1 2 2 2 2 2 2 2 2 2
RC5D33-150NH RC5D5-100NH RC5D9-55NH RC5D12-42NH RC5D15-33NH RC9D33-150NH RC9D5-100NH RC9D9-55NH RC9D12-42NH RC9D15-33NH RC12D33-150NH RC12D5-100NH RC12D5-100NH RC12D5-55NH RC12D12-42NH	9 VDC (4.5 - 5.5 VDC) 9 VDC (8.1 - 9.9 VDC) 12 VDC (10.8 - 13.2	±12 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC ±12 VDC ±15 VDC ±5 VDC ±5 VDC ±15 VDC ±15 VDC ±12 VDC ±15 VDC ±12 VDC ±15 VDC ±15 VDC ±5 VDC ±5 VDC ±5 VDC ±5 VDC ±12 VDC ±15 VDC ±15 VDC ±15 VDC	±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±4.2mA ±3.4mA ±15mA ±15mA ±4.2mA ±3.4mA ±15mA ±15mA ±10mA ±3.4mA	±56mA ±42mA ±34mA ±150mA ±100mA ±56mA ±42mA ±150mA ±100mA ±56mA ±42mA ±150mA ±150mA ±42mA ±34mA ±150mA ±150mA ±42mA ±34mA	8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0% 15% 12% 8.0%	75mVp-p	1W 1	75% 78% 80% 65% 70% 75% 78% 80% 65% 70% 75% 78% 80% 65% 70% 75% 78% 80% 65% 80%	1 2 2 1 1 1 2 2 1 1 1 2 2 2 2 2 2 2 2 2
RC5D33-150NH RC5D5-100NH RC5D9-55NH RC5D12-42NH RC5D15-33NH RC9D33-150NH RC9D5-100NH RC9D9-55NH RC9D12-42NH RC9D15-33NH RC12D33-150NH RC12D5-100NH RC12D9-55NH RC12D9-55NH RC12D12-42NH RC12D15-33NH RC12D12-42NH RC12D15-33NH RC12D15-33NH	9 VDC (4.5 - 5.5 VDC) 9 VDC (8.1 - 9.9 VDC) 12 VDC (10.8 - 13.2 VDC)	±12 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC ±12 VDC ±15 VDC ±5 VDC ±5 VDC ±5 VDC ±12 VDC ±15 VDC ±12 VDC ±15 VDC ±15 VDC ±3.3 VDC ±5 VDC ±5 VDC ±5 VDC ±5 VDC ±12 VDC ±15 VDC ±13 VDC ±15 VDC ±13 VDC	±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA ±4.2mA ±3.4mA ±15mA ±1.5mA ±4.2mA ±3.4mA ±15mA ±1.5mA ±1.5mA ±1.5mA	±56mA ±42mA ±34mA ±150mA ±100mA ±56mA ±42mA ±150mA ±100mA ±56mA ±42mA ±150mA ±100mA ±56mA ±150mA ±150mA ±100mA ±56mA ±100mA	8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0% 12% 8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0%	75mVp-p	1W 1	75% 78% 80% 65% 70% 75% 78% 80% 65% 70% 75% 78% 80% 65% 70% 75% 78% 80% 65%	1 2 2 1 1 1 2 2 1 1 1 2 2 2 2 2 2 2 2 2
RC5D33-150NH RC5D5-100NH RC5D9-55NH RC5D12-42NH RC5D15-33NH RC9D33-150NH RC9D5-100NH RC9D9-55NH RC9D12-42NH RC9D15-33NH RC12D33-150NH RC12D5-100NH RC12D9-55NH RC12D12-42NH RC12D15-33NH RC12D12-42NH RC12D15-33NH RC12D15-33NH RC15D33-150NH	9 VDC (4.5 - 5.5 VDC) 9 VDC (8.1 - 9.9 VDC) 12 VDC (10.8 - 13.2 VDC)	±12 VDC ±15 VDC ±3.3 VDC ±5 VDC ±9 VDC ±12 VDC ±15 VDC ±5 VDC ±5 VDC ±9 VDC ±12 VDC ±15 VDC ±12 VDC ±15 VDC ±15 VDC ±3.3 VDC ±5 VDC ±5 VDC ±5 VDC ±5 VDC ±10 VDC	±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±5.6mA ±4.2mA ±15mA ±10mA ±5.6mA ±4.2mA ±3.4mA ±15mA ±10mA ±15mA ±15mA ±10mA ±5.6mA ±15mA ±10mA	±56mA ±42mA ±34mA ±150mA ±100mA ±56mA ±42mA ±150mA ±150mA ±56mA ±42mA ±150mA ±100mA ±56mA ±100mA ±56mA ±100mA ±56mA ±100mA	8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0% 15% 12% 8.0% 8.5% 7.0%	75mVp-p	1W 1	75% 78% 80% 65% 70% 75% 78% 80% 65% 70% 75% 78% 80% 65% 70% 75% 78% 80% 65% 70% 75% 78% 70%	1 2 2 1 1 1 2 2 1 1 1 2 2 2 2 2 2 2 2 2

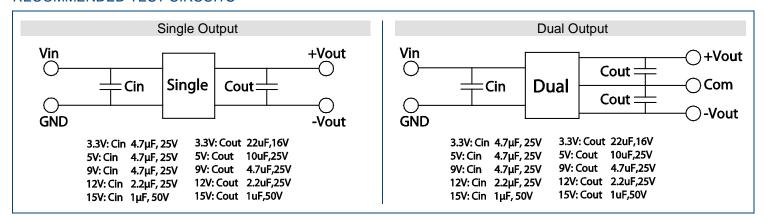
NOTES

^{1.} The RC series requires a $\pm 10\%$ minimum output load to maintain all specified regulations.

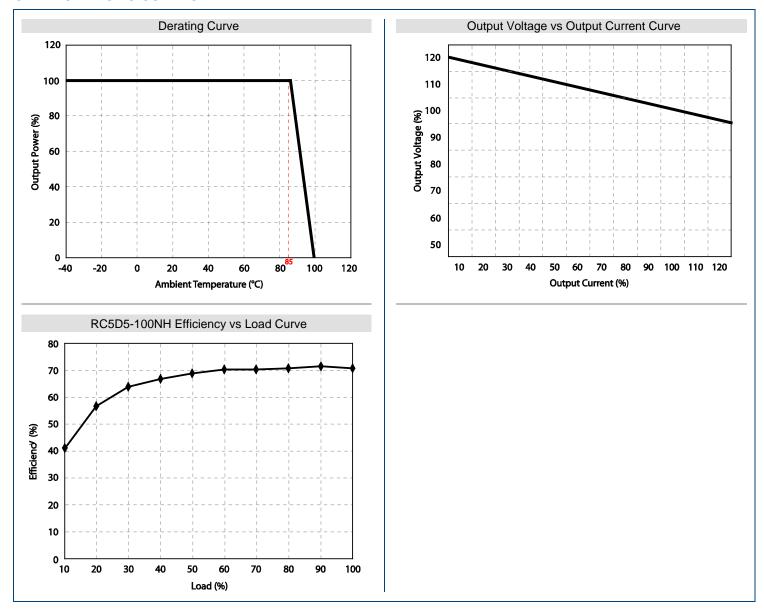
^{2.} As the input voltage increases, the efficiency will also increase.



RECOMMENDED TEST CIRCUITS

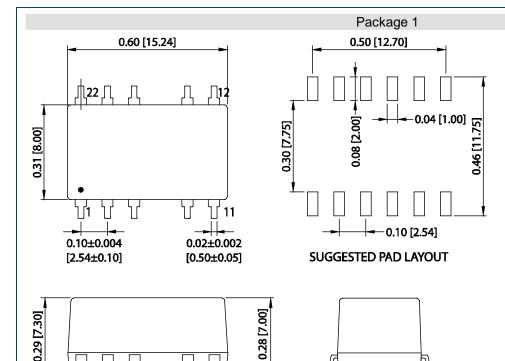


CHARACTERISTIC CURVES -





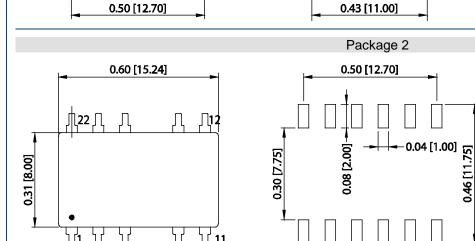
MECHANICAL DRAWINGS



Notes

- 1. Unit: inches [mm]
- 2. Tolerance: ±0.01 [±0.25]
- 3. Case Material: DAP
- 4. Weight: 0.06oz (1.8g)

PIN CONNECTIONS					
Pin	Single	Dual			
1	-Vin	-Vin			
3	+Vin	+Vin			
5	NC	NC			
9	-Vout	Com			
11	NC	-Vout			
12	NC	NC			
14	+Vout	+Vout			
18	NC	NC			
20	NC	NC			
22	NC	NC			



Notes

- 1. Unit: inches [mm]
- 2. Tolerance: ±0.01 [±0.25]
- 3. Case Material: DAP
- 4. Weight: 0.06oz (1.8g)

0.10±0.004 [2.54±0.10]	0.02±0.002 [0.50±0.05]	SUGGESTED PAD LAYOUT
0.50 [12.	70]	0.43 [11.00]

PIN CONNECTIONS					
Pin Single Dual					
1 -Vin -Vin					
3 +Vin +Vin					
5 NC NC					
9 -Vout Com					
11 NC -Vout					
12 NC NC					
14 +Vout +Vout					
18 NC NC					
20 NC NC					
22 NC NC					

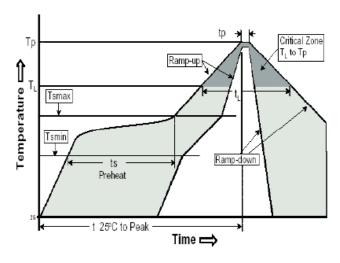
0.33 [8.50]



SOLDER DETAILS -

RoHS parts can withstand IR Reflow peak temperature: 240°C Max as the following profile.

Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate (Ts _{max} to Tp)	3°C/second max.
Preheat	
-Temperature Min (Ts min)	150°C
-Temperature Max (Ts _{max})	200°C
-Time (ts _{min} to ts _{max})	60-180 seconds
Time Maintained Above:	
-Temperatuer (T _L)	217°C
-Time (t∟)	60-150 seconds
Peak/Classification Temperature (Tp)	240°C MAX
Time within 5°C of actual peak	20-40 seconds
Temperature (tp)	20-40 Seconds
Ramp-Down Rate	6°C/seconds max.
Time 25°C to Peak Temperature	6 minutes max.



MODEL NUMBER SETUP-

RC	15	S	15	- 6	67	N	Н
Series Name	Input Voltage	Output Quantity	Ouptut Voltage	Outpu	t Current	Unregulated	I/O Isolation
	33: 3.3 VDC5: 5 VDC9: 9 VDC12: 12 VDC15: 15 VDC	S: Single Output	33: 3.3 VDC 5: 5 VDC 9: 9 VDC 12: 12 VDC 15: 15 VDC	200: 112: 83:	303mA 200mA 112mA 83mA 67mA	N: Unregulated	H: 3000VDC
		D: Dual Output	33: ±3.3 VDC 5: ±5 VDC 9: ±9 VDC 12: ±12 VDC 15: ±15 VDC	100: 55: 42:	±150mA ±100mA ±56mA ±42mA ±34mA		



COMPANY INFORMATION -

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001-2008 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

Contact Wall Industries for further information:

Phone: ☎(603)778-2300
Toll Free: ☎(888)597-9255
Fax: ☎(603)778-9797

E-mail: sales@wallindustries.com
Web: www.wallindustries.com
Address: 37 Industrial Drive

Exeter, NH 03833