

Micro power (0.5-3W) constant voltage input, high isolation single / dual output [DIP24]

Product Features:

- Constant voltage input high isolation single / dual output
- Isolation voltage: 4500VAC
- Input voltage range <+/- 10%
- Output voltage accuracy <+/- 5%
- International standard pin definition: DIP24
- No additional components required
- Insulation resistance: 500VDC 1GΩ
- MTBF:> 1000000 hours
- Working temperature: -40 °C ~ + 85 °C
- Application: Medical, self-control, power



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Online technical support

Input characteristics (Tj = 25 °C)

parameter	Working conditions	MIN	TYP	MAX	unit
Input voltage range	3.3V continuous operation	3.0	3.3	3.5	V
	5V continuous operation	4.5	5	5.5	V
	12V continuous operation	10.8	12	13.2	V
	15V continuous operation	13.5	15	16.5	V
	24V continuous operation	21.8	twenty four	26.4	V

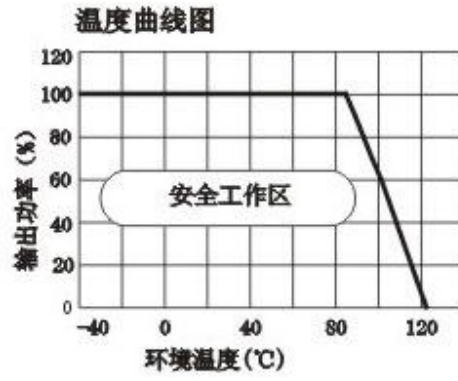
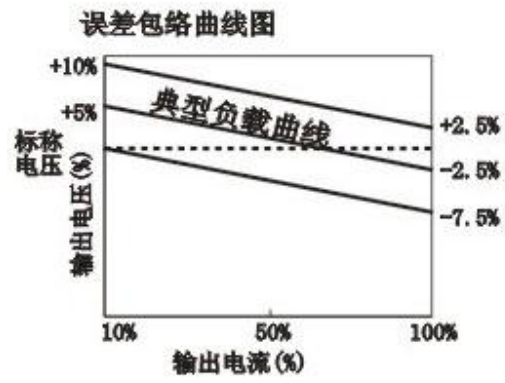
Output characteristics (Tj = 25 °C)

parameter	Working conditions	MIN	TYP	MAX	unit
Output Power	See product model list	0.5		3.0	W
Linear adjustment	Input nominal voltage ± 1%			± 1.2	%
Load regulation	10% to 100%	10		15	%
Output voltage accuracy	100% full load			± 5	%
Full load efficiency	Nominal input voltage		70		%
Temperature drift coefficient	100% full load			0.03	% / °C
Output ripple noise	20MHz bandwidth		40	100	mVp-p
operating frequency	Q		100		KHz

Insulation characteristics (Tj = 25 °C)

parameter	Working conditions	MIN	TYP	MAX	unit
Dielectric strength	1 minute test time, less than 1 mA leakage current	4500			VAC
Insulation resistance	500VDC insulation voltage	1000			MΩ

Typical characteristic curve



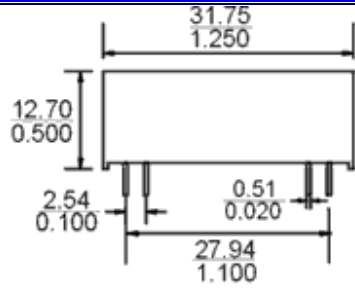
Mechanical size and pin definition (mm / inch):

DCH Single / Dual
Seperate Dual Series

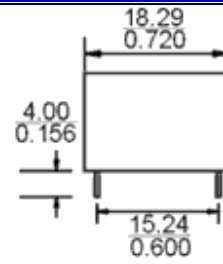


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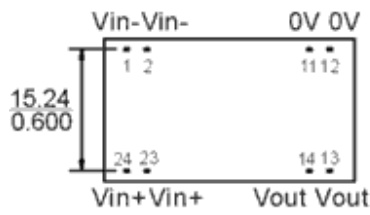
PIN	Single	Dual	Seperate
1	Vin-	Vin-	Vin-
2	Vin-	Vin-	Vin-
11	0V	Vout-	V2 +
12	0V	0V	V2-
13	Vout	0V	V1-
14	Vout	Vout +	V1 +
twenty three	Vin +	Vin +	Vin +
twenty four	Vin +	Vin +	Vin +



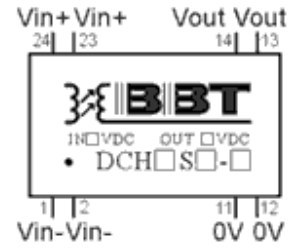
Side Views



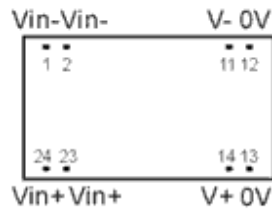
End Views



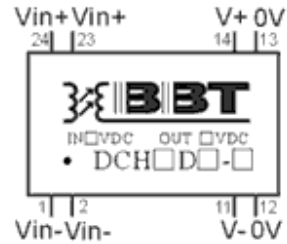
Single Bottom



Single Top



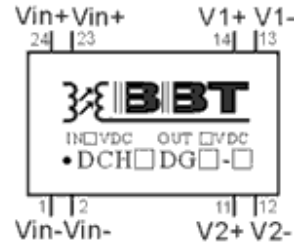
DUAL Bottom



DUAL Top



DUAL Separate Bottom



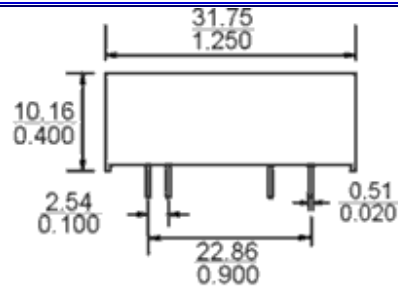
DUAL Separate Top

DCR Single / Dual
Seperate Dual Series

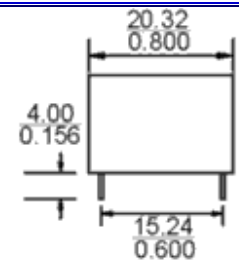


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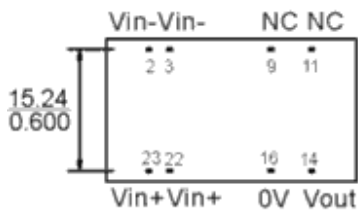
PIN	Single	Dual	Seperate
2	Vin-	Vin-	Vin-
3	Vin-	Vin-	Vin-
9	NC	0V	V2-
11	NC	Vout-	V2 +
14	Vout	Vout +	V1 +
16	0V	0V	V1-
twenty two	Vin +	Vin +	Vin +
twenty three	Vin +	Vin +	Vin +



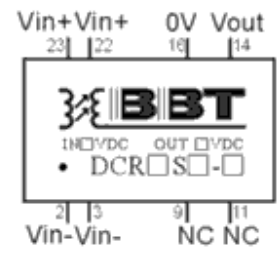
Side Views



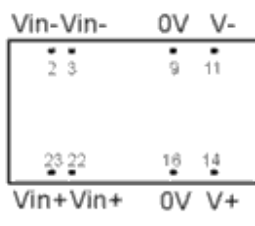
End Views



Single Bottom



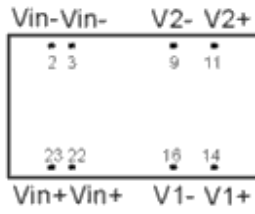
Single Top



DUAL Bottom



DUAL Top



DUAL Separate Bottom



DUAL Separate Top

Product Selection (DCH Series 1W 4500VAC)

Part Number	Input Voltage Vin ± 10%	Output				Isolation VAC	Efficiency % (MIN)
		+ V (V)	+ I (mA)	-V (V)	-I (mA)		
DCH5S3.3HV-1W	5 4.5 ~ 5.5	3.3	300	-	-	4500	75
DCH5S5HV-1W		5	200	-	-	4500	76
DCH5S5HV-250		5	250	-	-	4500	76
DCH5S6HV-1W		6	167	-	-	4500	76
DCH5S7HV-1W		7	143	-	-	4500	76

DCH5S8HV-1W		8	125	-	-	4500	75
DCH5S9HV-1W		9	112	-	-	4500	76
DCH5S12HV-1W		12	84	-	-	4500	76
DCH5S15HV-1W		15	67	-	-	4500	75
DCH5D3.3HV-1W	5 4.5 ~ 5.5	3.3	152	-3.3	-152	4500	75
DCH5D5HV-1W		5	100	-5	-100	4500	76
DCH5D5HV-100		5	100	-5	-100	4500	76
DCH5D6HV-1W		6	83	-6	-83	4500	76
DCH5D6HV-100		6	100	-6	-100	4500	76
DCH5D7HV-1W		7	71	-7	-71	4500	76
DCH5D7HV-100		7	100	-7	-100	4500	76
DCH5D8HV-1W		8	63	-8	-63	4500	76
DCH5D8HV-100		8	100	-8	-100	4500	76
DCH5D9HV-1W		9	56	-9	-56	4500	76
DCH5D9HV-100		9	100	-9	-100	4500	76
DCH5D12HV-1W		12	42	-12	-42	4500	76
DCH5D12HV-100		12	100	-12	-100	4500	76
DCH5D15HV-1W		15	34	-15	-34	4500	76
DCH5D15HV-100		15	100	-15	-100	4500	75
DCH12S3.3HV-1W		12 10.8 ~ 13.2	3.3	300	-	-	4500
DCH12S5HV-1W	5		200	-	-	4500	76
DCH12S5HV-250	5		250	-	-	4500	76
DCH12S6HV-1W	6		167	-	-	4500	76
DCH12S7HV-1W	7		143	-	-	4500	76
DCH12S8HV-1W	8		125	-	-	4500	75
DCH12S9HV-1W	9		112	-	-	4500	76
DCH12S12HV-1W	12		84	-	-	4500	76
DCH12S15HV-1W	15		67	-	-	4500	75
DCH12D3.3HV-1W	12 10.8 ~ 13.2	3.3	152	-3.3	-152	4500	75
DCH12D5HV-1W		5	100	-5	-100	4500	76
DCH12D5HV-100		5	100	-5	-100	4500	76
DCH12D6HV-1W		6	83	-6	-83	4500	76
DCH12D6HV-100		6	100	-6	-100	4500	76
DCH12D7HV-1W		7	71	-7	-71	4500	76
DCH12D7HV-100		7	100	-7	-100	4500	76
DCH12D8HV-1W		8	63	-8	-63	4500	76
DCH12D8HV-100		8	100	-8	-100	4500	76
DCH12D9HV-1W		9	56	-9	-56	4500	76

DCH12D9HV-100		9	100	-9	-100	4500	76
DCH12D12HV-1W		12	42	-12	-42	4500	76
DCH12D12HV-100		12	100	-12	-100	4500	76
DCH12D15HV-1W		15	34	-15	-34	4500	76
DCH12D15HV-100		15	100	-15	-100	4500	75

Product Selection (DCH Series 2W 4500VAC)

Part Number	Input Voltage $V_{in} \pm 10\%$	Output				Isolation VAC	Efficiency % (MIN)
		+ V (V)	+ I (mA)	-V (V)	-I (mA)		
DCH5S3.3HV-2W	5 4.5 ~ 5.5	3.3	600	-	-	4500	75
DCH5S5HV-2W		5	400	-	-	4500	76
DCH5S6HV-2W		6	333	-	-	4500	76
DCH5S7HV-2W		7	286	-	-	4500	76
DCH5S8HV-2W		8	250	-	-	4500	75
DCH5S9HV-2W		9	222	-	-	4500	76
DCH5S12HV-2W		12	167	-	-	4500	76
DCH5S15HV-2W		15	133	-	-	4500	75
DCH5D3.3HV-2W	5 4.5 ~ 5.5	3.3	300	-3.3	-300	4500	75
DCH5D5HV-2W		5	200	-5	-200	4500	76
DCH5D6HV-2W		6	167	-6	-167	4500	76
DCH5D7HV-2W		7	142	-7	-142	4500	76
DCH5D7HV-100		7	100	-7	-100	4500	76
DCH5D8HV-2W		8	125	-8	-125	4500	76
DCH5D8HV-100		8	100	-8	-100	4500	76
DCH5D9HV-2W		9	111	-9	-111	4500	76
DCH5D9HV-100		9	100	-9	-100	4500	76
DCH5D12HV-2W		12	83	-12	-83	4500	76
DCH5D12HV-100		12	100	-12	-100	4500	76
DCH5D15HV-2W		15	67	-15	-67	4500	76
DCH5D15HV-100		15	100	-15	-100	4500	75
DCH12S3.3HV-2W		12 10.8 ~ 13.2	3.3	600	-	-	4500
DCH12S5HV-2W	5		400	-	-	4500	76
DCH12S6HV-2W	6		333	-	-	4500	76
DCH12S7HV-2W	7		286	-	-	4500	76
DCH12S8HV-2W	8		250	-	-	4500	75
DCH12S9HV-2W	9		222	-	-	4500	76
DCH12S12HV-2W	12		167	-	-	4500	76

DCH12S15HV-2W		15	133	-	-	4500	75
DCH12D3.3HV-2W	12 10.8 ~ 13.2	3.3	300	-3.3	-300	4500	75
DCH12D5HV-2W		5	200	-5	-200	4500	76
DCH12D6HV-2W		6	167	-6	-167	4500	76
DCH12D7HV-2W		7	142	-7	-142	4500	76
DCH12D7HV-100		7	100	-7	-100	4500	76
DCH12D8HV-2W		8	125	-8	-125	4500	76
DCH12D8HV-100		8	100	-8	-100	4500	76
DCH12D9HV-2W		9	111	-9	-111	4500	76
DCH12D9HV-100		9	100	-9	-100	4500	76
DCH12D12HV-2W		12	83	-12	-83	4500	76
DCH12D12HV-100		12	100	-12	-100	4500	76
DCH12D15HV-2W		15	67	-15	-67	4500	76
DCH12D15HV-100		15	100	-15	-100	4500	75

Product Selection (DCH Series 3W 4500VAC)

Part Number	Input Voltage $V_{in} \pm 10\%$	Output				Isolation VAC	Efficiency % (MIN)
		+ V (V)	+ I (mA)	-V (V)	-I (mA)		
DCH5S5HV-3W	5 4.5 ~ 5.5	5	600	-	-	4500	76
DCH5S6HV-3W		6	500	-	-	4500	76
DCH5S7HV-3W		7	428	-	-	4500	76
DCH5S8HV-3W		8	375	-	-	4500	75
DCH5S9HV-3W		9	333	-	-	4500	76
DCH5S12HV-3W		12	250	-	-	4500	76
DCH5S15HV-3W		15	200	-	-	4500	75
DCH5D5HV-3W	5 4.5 ~ 5.5	5	300	-5	-300	4500	76
DCH5D6HV-3W		6	250	-6	-250	4500	76
DCH5D7HV-3W		7	214	-7	-214	4500	76
DCH5D8HV-3W		8	187	-8	-187	4500	76
DCH5D9HV-3W		9	167	-9	-167	4500	76
DCH5D12HV-3W		12	125	-12	-125	4500	76
DCH5D15HV-3W		15	100	-15	-100	4500	76
DCH12S5HV-3W	12 10.8 ~ 13.2	5	600	-	-	4500	76
DCH12S6HV-3W		6	500	-	-	4500	76
DCH12S7HV-3W		7	428	-	-	4500	76
DCH12S8HV-3W		8	375	-	-	4500	75
DCH12S9HV-3W		9	333	-	-	4500	76

DCH12S12HV-3W		12	250	-	-	4500	76
DCH12S15HV-3W		15	200	-	-	4500	75
DCH12D5HV-3W	12 10.8 ~ 13.2	5	300	-5	-300	4500	76
DCH12D6HV-3W		6	250	-6	-250	4500	76
DCH12D7HV-3W		7	214	-7	-214	4500	76
DCH12D8HV-3W		8	187	-8	-187	4500	76
DCH12D9HV-3W		9	167	-9	-167	4500	76
DCH12D12HV-3W		12	125	-12	-125	4500	76
DCH12D15HV-3W		15	100	-15	-100	4500	76

Product Selection (DCR Series 1W 4500VAC)

Part Number	Input Voltage $V_{in} \pm 10\%$	Output				Isolation VAC	Efficiency % (MIN)
		+ V (V)	+ I (mA)	- V (V)	- I (mA)		
DCR5S3.3HV-1W	5 4.5 ~ 5.5	3.3	300	-	-	4500	75
DCR5S5HV-1W		5	200	-	-	4500	76
DCR5S5HV-250		5	250	-	-	4500	76
DCR5S6HV-1W		6	167	-	-	4500	76
DCR5S7HV-1W		7	143	-	-	4500	76
DCR5S8HV-1W		8	125	-	-	4500	75
DCR5S9HV-1W		9	112	-	-	4500	76
DCR5S12HV-1W		12	84	-	-	4500	76
DCR5S15HV-1W		15	67	-	-	4500	75
DCR5D3.3HV-1W	5 4.5 ~ 5.5	3.3	152	-3.3	-152	4500	75
DCR5D5HV-1W		5	100	-5	-100	4500	76
DCR5D5HV-100		5	100	-5	-100	4500	76
DCR5D6HV-1W		6	83	-6	-83	4500	76
DCR5D6HV-100		6	100	-6	-100	4500	76
DCR5D7HV-1W		7	71	-7	-71	4500	76
DCR5D7HV-100		7	100	-7	-100	4500	76
DCR5D8HV-1W		8	63	-8	-63	4500	76
DCR5D8HV-100		8	100	-8	-100	4500	76
DCR5D9HV-1W		9	56	-9	-56	4500	76
DCR5D9HV-100		9	100	-9	-100	4500	76
DCR5D12HV-1W		12	42	-12	-42	4500	76
DCR5D12HV-100		12	100	-12	-100	4500	76
DCR5D15HV-1W		15	34	-15	-34	4500	76
DCR5D15HV-100		15	100	-15	-100	4500	75

DCR12S3.3HV-1W	12 10.8 ~ 13.2	3.3	300	-	-	4500	75
DCR12S5HV-1W		5	200	-	-	4500	76
DCR12S5HV-250		5	250	-	-	4500	76
DCR12S6HV-1W		6	167	-	-	4500	76
DCR12S7HV-1W		7	143	-	-	4500	76
DCR12S8HV-1W		8	125	-	-	4500	75
DCR12S9HV-1W		9	112	-	-	4500	76
DCR12S12HV-1W		12	84	-	-	4500	76
DCR12S15HV-1W		15	67	-	-	4500	75
DCR12D3.3HV-1W	12 10.8 ~ 13.2	3.3	152	-3.3	-152	4500	75
DCR12D5HV-1W		5	100	-5	-100	4500	76
DCR12D5HV-100		5	100	-5	-100	4500	76
DCR12D6HV-1W		6	83	-6	-83	4500	76
DCR12D6HV-100		6	100	-6	-100	4500	76
DCR12D7HV-1W		7	71	-7	-71	4500	76
DCR12D7HV-100		7	100	-7	-100	4500	76
DCR12D8HV-1W		8	63	-8	-63	4500	76
DCR12D8HV-100		8	100	-8	-100	4500	76
DCR12D9HV-1W		9	56	-9	-56	4500	76
DCR12D9HV-100		9	100	-9	-100	4500	76
DCR12D12HV-1W		12	42	-12	-42	4500	76
DCR12D12HV-100		12	100	-12	-100	4500	76
DCR12D15HV-1W		15	34	-15	-34	4500	76
DCR12D15HV-100		15	100	-15	-100	4500	75

Product Selection (DCR Seroes 2W 4500VAC)

Part Number	Input Voltage $V_{in} \pm 10\%$	Output				Isolation VAC	Efficiency % (MIN)
		+ V (V)	+ I (mA)	-V (V)	-I (mA)		
DCR5S3.3HV-2W	5 4.5 ~ 5.5	3.3	600	-	-	4500	75
DCR5S5HV-2W		5	400	-	-	4500	76
DCR5S6HV-2W		6	333	-	-	4500	76
DCR5S7HV-2W		7	286	-	-	4500	76
DCR5S8HV-2W		8	250	-	-	4500	75
DCR5S9HV-2W		9	222	-	-	4500	76
DCR5S12HV-2W		12	167	-	-	4500	76
DCR5S15HV-2W		15	133	-	-	4500	75
DCR5D3.3HV-2W	5	3.3	300	-3.3	-300	4500	75

DCR5D5HV-2W	4.5 ~ 5.5	5	200	-5	-200	4500	76
DCR5D6HV-2W		6	167	-6	-167	4500	76
DCR5D7HV-2W		7	142	-7	-142	4500	76
DCR5D7HV-100		7	100	-7	-100	4500	76
DCR5D8HV-2W		8	125	-8	-125	4500	76
DCR5D8HV-100		8	100	-8	-100	4500	76
DCR5D9HV-2W		9	111	-9	-111	4500	76
DCR5D9HV-100		9	100	-9	-100	4500	76
DCR5D12HV-2W		12	83	-12	-83	4500	76
DCR5D12HV-100		12	100	-12	-100	4500	76
DCR5D15HV-2W		15	67	-15	-67	4500	76
DCR5D15HV-100		15	100	-15	-100	4500	75
DCR12S3.3HV-2W		12 10.8 ~ 13.2	3.3	600	-	-	4500
DCR12S5HV-2W	5		400	-	-	4500	76
DCR12S6HV-2W	6		333	-	-	4500	76
DCR12S7HV-2W	7		286	-	-	4500	76
DCR12S8HV-2W	8		250	-	-	4500	75
DCR12S9HV-2W	9		222	-	-	4500	76
DCR12S12HV-2W	12		167	-	-	4500	76
DCR12S15HV-2W	15	133	-	-	4500	75	
DCR12D3.3HV-2W	12 10.8 ~ 13.2	3.3	300	-3.3	-300	4500	75
DCR12D5HV-2W		5	200	-5	-200	4500	76
DCR12D6HV-2W		6	167	-6	-167	4500	76
DCR12D7HV-2W		7	142	-7	-142	4500	76
DCR12D7HV-100		7	100	-7	-100	4500	76
DCR12D8HV-2W		8	125	-8	-125	4500	76
DCR12D8HV-100		8	100	-8	-100	4500	76
DCR12D9HV-2W		9	111	-9	-111	4500	76
DCR12D9HV-100		9	100	-9	-100	4500	76
DCR12D12HV-2W		12	83	-12	-83	4500	76
DCR12D12HV-100		12	100	-12	-100	4500	76
DCR12D15HV-2W		15	67	-15	-67	4500	76
DCR12D15HV-100		15	100	-15	-100	4500	75

Product Selection (DCR Series 3W 4500VAC)

Part Number	Input Voltage Vin ± 10%	Output				Isolation VAC	Efficiency % (MIN)
		+ V (V)	+ I (mA)	-V (V)	-I (mA)		

DCR5S5HV-3W	5 4.5 ~ 5.5	5	600	-	-	4500	76
DCR5S6HV-3W		6	500	-	-	4500	76
DCR5S7HV-3W		7	428	-	-	4500	76
DCR5S8HV-3W		8	375	-	-	4500	75
DCR5S9HV-3W		9	333	-	-	4500	76
DCR5S12HV-3W		12	250	-	-	4500	76
DCR5S15HV-3W		15	200	-	-	4500	75
DCR5D5HV-3W	5 4.5 ~ 5.5	5	300	-5	-300	4500	76
DCR5D6HV-3W		6	250	-6	-250	4500	76
DCR5D7HV-3W		7	214	-7	-214	4500	76
DCR5D8HV-3W		8	187	-8	-187	4500	76
DCR5D9HV-3W		9	167	-9	-167	4500	76
DCR5D12HV-3W		12	125	-12	-125	4500	76
DCR5D15HV-3W		15	100	-15	-100	4500	76
DCR12S5HV-3W	12 10.8 ~ 13.2	5	600	-	-	4500	76
DCR12S6HV-3W		6	500	-	-	4500	76
DCR12S7HV-3W		7	428	-	-	4500	76
DCR12S8HV-3W		8	375	-	-	4500	75
DCR12S9HV-3W		9	333	-	-	4500	76
DCR12S12HV-3W		12	250	-	-	4500	76
DCR12S15HV-3W		15	200	-	-	4500	75
DCR12D5HV-3W	12 10.8 ~ 13.2	5	300	-5	-300	4500	76
DCR12D6HV-3W		6	250	-6	-250	4500	76
DCR12D7HV-3W		7	214	-7	-214	4500	76
DCR12D8HV-3W		8	187	-8	-187	4500	76
DCR12D9HV-3W		9	167	-9	-167	4500	76
DCR12D12HV-3W		12	125	-12	-125	4500	76
DCR12D15HV-3W		15	100	-15	-100	4500	76

*** This form is not exhaustive. If you have special needs, please contact us: 13802693453 15917-232-485**

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