

CDTM-1F SERIES

1WATT, 3KVDC, ISOLATED, UNREGULATED



FEATURES:

- ✓ 3000Vdc isolation voltage
- ✓ Single and dual output models
- ✓ High efficiency, and low ripple and noise
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
CDTM1-0310F	3.3(3.0~3.6)	3.3	30	300	60%
CDTM1-0311F		5	20	200	68%
CDTM1-0312F		9	11.1	111	76%
CDTM1-0313F		12	8.3	83	77%
CDTM1-0314F		15	6.7	67	78%
CDTM1-0321F		±5	10	100	70%
CDTM1-0322F		±9	5.6	56	73%
CDTM1-0323F		±12	4.2	42	78%
CDTM1-0324F		15	3.3	33	79%
CDTM1-0510F	5(4.5~5.5)	3.3	30	300	60%
CDTM1-0511F		5	20	200	70%
CDTM1-0512F		9	11.1	111	76%
CDTM1-0513F		12	8.3	83	78%
CDTM1-0514F		15	6.7	67	78%
CDTM1-0521F		±5	10	100	70%
CDTM1-0522F		±9	5.6	56	73%
CDTM1-0523F		±12	4.2	42	77%
CDTM1-0524F		±15	3.3	33	78%
CDTM1-1210F	12(10.8~13.2)	3.3	30	300	60%
CDTM1-1211F		5	20	200	71%
CDTM1-1212F		9	11.1	111	73%
CDTM1-1213F		12	8.3	83	80%
CDTM1-1214F		15	6.7	67	81%
CDTM1-1221F		±5	10	100	70%
CDTM1-1222F		±9	5.6	56	73%
CDTM1-1223F		±12	4.2	42	77%
CDTM1-1224F		±15	3.3	33	78%

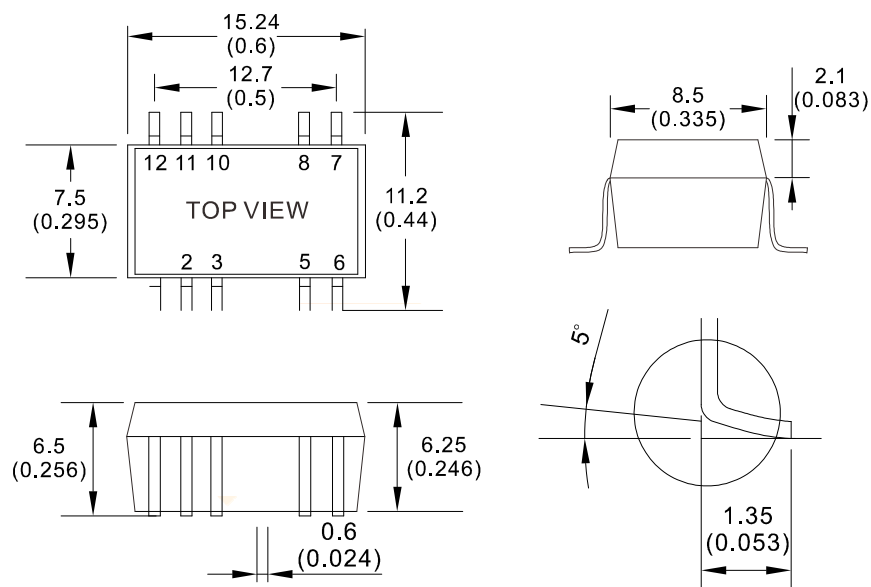
Notes: Other input and output models may available on request.

ELECTRICAL

Line regulation	---	1.5% max.
Load regulation	10% ~ 100% full load	15%max.
Isolation voltage	Leakage current < 1mA/1min.	3000Vdc min.
Isolation resistance	Test at 500VDC	1000mΩ min.
Switching frequency	---	100KHz typ.
Ripple and noise	Bend width 20MHz	100mVp-p max.
Temperature coefficient	Rated load	±0.03%/°C max.
Operating temperature range	---	-40°C to +85°C
Storage temperature range	---	-55°C to +125°C
Short circuit protection	---	1S
MTBF	---	3500KHrs
Weight	---	1.7g

Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

MECHANICAL



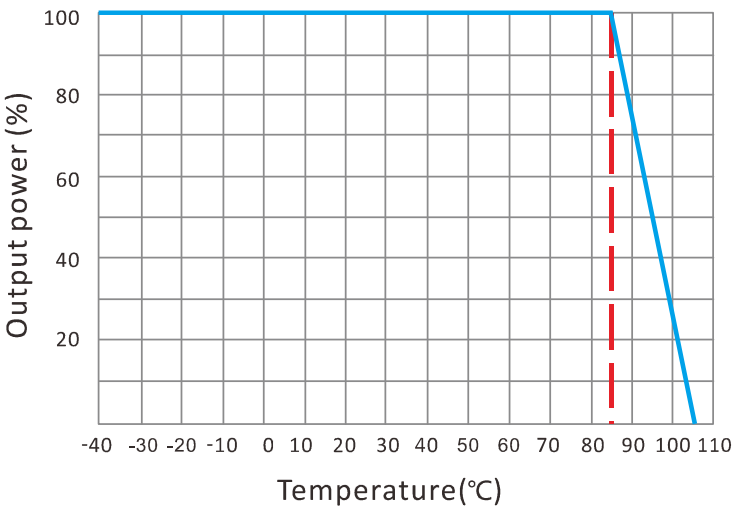
CONNECTION

PIN #	SINGLE	DUAL
1	GND	GND
2	+Vin	+Vin
3	NC	NC
5	0V	0V
6	NC	-Vo
7	NC	NC
8	+Vo	+Vo
10	NC	NC
11	NC	NC
12	NC	NC

Note:

* Unit is mm(inch).

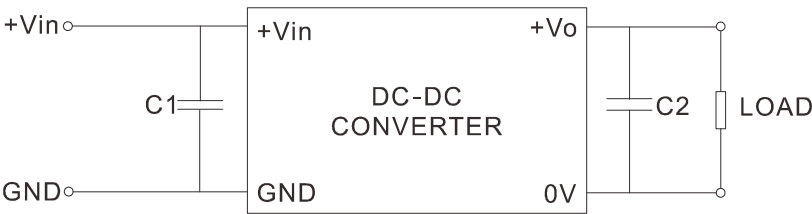
ELECTRICAL CURVE



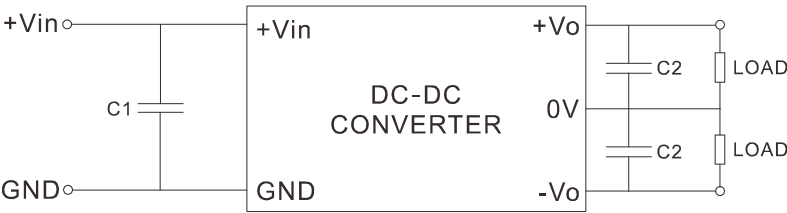
NOTE

RECOMMENDED TEST AND APPLICATION CIRCUIT

SINGLE OUTPUT



DUAL OUTPUT



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NOTE

CAPACITOR SELECTION

INPUT VOLTAGE	C1	SINGLE OUTPUT	C2	DUAL OUTPUT	C2
3.3VDC	4.7 μ F	3.3VDC	10.0 μ F	$\pm$ 5VDC	10.0 μ F
5VDC	4.7 μ F	5VDC	10.0 μ F	$\pm$ 9VDC	4.7 μ F
12VDC	2.2 μ F	9VDC	4.7 μ F	$\pm$ 12VDC	2.2 μ F
--	--	12VDC	2.2 μ F	$\pm$ 15VDC	1.0 μ F
--	--	15VDC	2.2 μ F	--	--