

MODEL SELECTION

D^①05^②0505^③X^④MD^⑤

Product Series Input Voltage
Output Voltage Fixed Input
MINI DIP8 Package



CE REACH

Model	INPUT VOLTAGE (V)	OUTPUT VOLTAGE (V)	OUTPUT CURRENT MAX	ISOIATION (VDC)	MAX CAPACTIVE Load	EFFICIEN CY (%)
D050303XMD	4.5-5.5	3.3 / 3.3	150 / 150	1000	220	63
D050505XMD	4.5-5.5	5 / 5	100 / 100	1000	220	72
D050707XMD	4.5-5.5	7.2 / 7.2	70 / 70	1000	220	75
D050909XMD	4.5-5.5	9 / 9	55 / 55	1000	220	78
D051212XMD	4.5-5.5	12 / 12	42 / 42	1000	220	80
D051515XMD	4.5-5.5	15 / 15	34 / 34	1000	220	80
D051818XMD	4.5-5.5	18 / 18	28 / 28	1000	220	78
D052424XMD	4.5-5.5	24 / 24	21 / 21	1000	220	78
D120303XMD	10.8-13.2	3.3 / 3.3	150 / 150	1000	220	70
D120505XMD	10.8-13.2	5 / 5	100 / 100	1000	220	72
D120707XMD	10.8-13.2	7.2 / 7.2	70 / 70	1000	220	71
D120909XMD	10.8-13.2	9 / 9	55 / 55	1000	220	76
D121212XMD	10.8-13.2	12 / 12	42 / 42	1000	220	80
D121515XMD	10.8-13.2	15 / 15	34 / 34	1000	220	80
D121818XMD	10.8-13.2	18 / 18	28 / 28	1000	220	76
D122424XMD	10.8-13.2	24 / 24	21 / 21	1000	220	78
D240303XMD	21.6-26.4	3.3 / 3.3	150 / 150	1000	220	76
D240505XMD	21.6-26.4	5 / 5	100 / 100	1000	220	72
D240707XMD	21.6-26.4	7.2 / 7.2	70 / 70	1000	220	73
D240909XMD	21.6-26.4	9 / 9	55 / 55	1000	220	77
D241212XMD	21.6-26.4	12 / 12	42 / 42	1000	220	82
D241515XMD	21.6-26.4	15 / 15	34 / 34	1000	220	82
D241818XMD	21.6-26.4	18 / 18	28 / 28	1000	220	75
D242424XMD	21.6-26.4	24 / 24	21 / 21	1000	220	80

add Suffix "P" for Continuous Short Circuit Protection, e.g. B0505XMDP

Parameters	Nominal	Typical	Maximum	Units
Voltage range	5	4.5-5.5		VDC
	12	10.8-13.2		VDC
	24	21.6-26.4		VDC
Filter	Capacitor			
Turn on Transient process time			25	ms
Start up time		200		ms
Absolute Maximum Rating	5 Vin	0-7		VDC
	12 Vin	0-15		VDC
	24 Vin	0-28		VDC
Peak Input Voltage time		100		ms

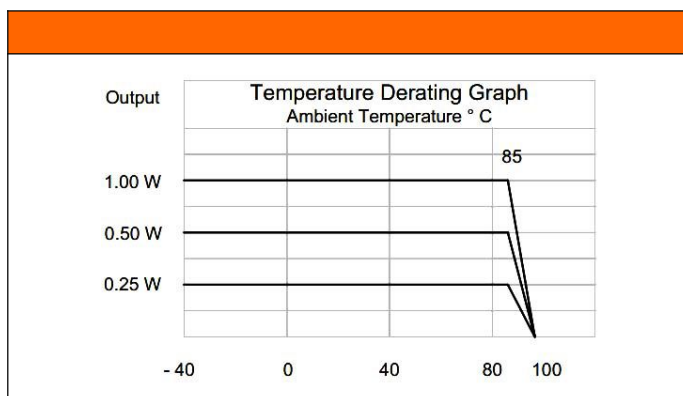
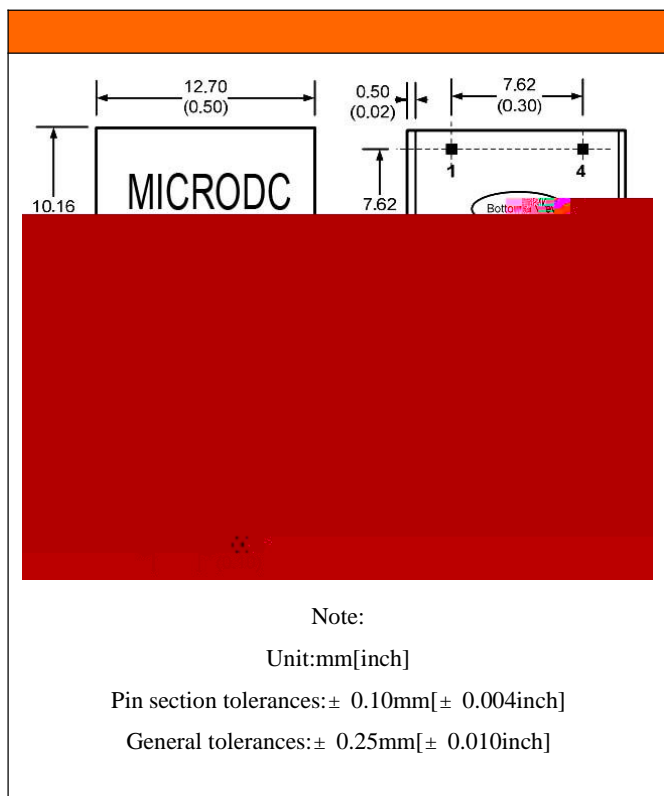
Parameters	Nominal	Typical	Rated	Units
Tested I/O voltage	3 sec		1000 all models	VDC
Resistance		> 1000		MOhm
Capacitance		60		pF

Parameters	Nominal	Typical	Maximum	Units
Maximum		±3		%
Short Circuit protection	Momentary (1 sec)			
Line voltage regulation (Single)	For 1% change of Vin	±1.2		%
Line voltage regulation (Dual)	For 1% change of Vin	±1.2		%
Load voltage regulation (Single)	Load 20 – 100%	±10		%
Load voltage regulation (Single) 3.3V output model	Load 20 – 100%	±20		%
Load voltage regulation (Dual)	Load 20 – 100%	±10		%
Load voltage regulation (Dual) 3.3V output model	Load 20 – 100%	±20		%
Temperature coefficient		±0.02		%/
Ripple & Noise	At 20MHz Bandwidth	100		mV p-p
Rising time		50		ms

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	80		KHz
Operating temperature	Full Load without Derating	-40 to+85		
Storage temperature		-55 to +125		
Max Case temperature			90	
Cooling	Free air convection			
Humidity			90	%
Case material	Non-conductive black plastic			
Weight		1.8		g
Dimensions (L x W x H)	0.50 x 0.40 x 0.27 inches 12.70 x 10.16 x 6.85 mm			
MTBF	>1 191 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25			

NOTE: All specifications in this data sheet are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified

Parameters	
Agency approvals	CE
Standards	EN55022 (Radiated Emissions) class B
	EN55024 (Noise Immunity), IEC61000-4-2(ESD) IEC61000-4-3 (Radiated Immunity)



PIN	D-XMD
1	- V Input
4	+ V Input
5	+ V1 Output
6	- V1 Output
7	+ V2 Output
8	- V2 Output

