



ODM10-SC

10W DC/DC



Features

- 4:1 Wide input range VDC
- Efficiency 85%~ 88%
- 5 KVAC Isolation
- Wide operating temperature from -40°C to +105°C
- EMI class A without external circuit
- No minimum load required
- Medical safety meets 2xMOPP per 3rd Edition of IEC/EN 60601-1
- Low leakage current; 5KVAC isolation
- DIP 24 package
- Available Inputs Voltage (nominal):
- 24 VDC Nom (DC9~36V)
- 48 VDC Nom (DC 1 ~75V)
- **2 Years Warranty**



MODEL/CHANNEL		Unit	ODM10-05SC24	ODM10-12SC24	ODM10-15SC24	ODM10-24SC24
OUTPUT	Nominal Voltage	V	5	12	15	24
	Current	A	2.2	.916	.733	.458
	Ripple & Noise(pk-pk)	mVp-p	30	40	40	50
	Efficiency	%	85.5	87.5	88	87.5
MODEL/CHANNEL		Unit	ODM10-05SC48	ODM10-12SC48	ODM10-15SC48	ODM10-24SC48
OUTPUT	Nominal Voltage	V	5	12	15	24
	Current	A	2.2	.916	.733	.458
	Ripple & Noise(pk-pk)	mVp-p	30	40	40	50
	Efficiency	%	87	89	88	90
	Operating Frequency	kHz	300			350
	Line Regulations	mV	.02			
	Load Regulations	mV	.02			
	Total Power	W	11			





ODM10

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MODEL/CHANNEL		Unit	ODM10-SC24	ODM10-SC48
INPUT	Voltage, Frequency	V	(9~18) 6	(18~36) 6
	Start Up Time	mS	Nom. Vin at 100% load Typ. 25ms	
	Voltage Lockout 24VDC 48VDC	VDC	Typ. 7.5VDC Typ. 15VDC	
	Voltage Surge 24VDC 48VDC	VDC	Max. 50VDC Max. 100VDC	
	Start Up Time 24VDC 48VDC	VDC	9 VDC 18 VDC	
Function	Isolation Voltage	Vac	60 sec. 1mA Min. 5KVDC	
	Isolation Capacitance	pf	Max. 15 pF	
	Isolation Resistance	-	Min. 1000 MΩ	
	Overvoltage Protection	-	Min. 5.6~Max. 8 Min. 13.4~Max. 19.2 Min. 16.8~Max. 22.5 Min. 26.9~Max. 31.2	
	Overload Protection	-	Typ. 150%	
Environment	Cooling Method	-	Convection	
	Operating temp. & Humidity	-	-40 ~ +105°C	
	Storage temp. & Humidity	-	-55 ~ +125°C	
	MTBF	-	25°C MIN. 1016 KHrs	
	Vibration 24VDC 48VDC	-	10 ~ 55Hz at 1G, 3 minutes period, 30 minutes along X, Y and Z axis Mil-STD 202G IEC68-2-6	
	Safety/Emission	-	10 ~ 55Hz at 1G, 3 minutes period, 30 minutes along X, Y and Z axis EMC EN55011 Class B, Radiated immunity EN61000-4-9 Criteria A ESD EN61000-4-2, Air±15kV, Contact±8kV/30 Fast transient EN61000-4-4, ±2kV Criteria A; Surge EN61000-4-5. ±2kV Criteria A; Conducted immunity EN61000-4-6 Magnetic field immunity EN61000-4-8 Criteria A Medical safety 2 X MOPP per 3rd edition of IEC/EN 60601	
Dimension	Size(LxWxH) /Weight	24VDC 48VDC	mm/g	25.4 25.4x10/17 50.8x25.4x12/30
	Case Material Potting Material	-	-	PLASTIC MATERIAL

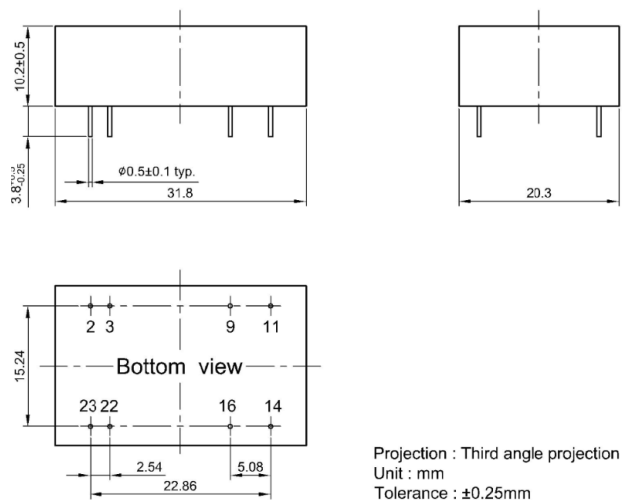




Derating Curve

Filtering

Design Diagram



Pin	Single
2, 3	-Vin
9	No pin
11	No pin
14	+Vout
16	-Vout
22, 23	+Vin





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