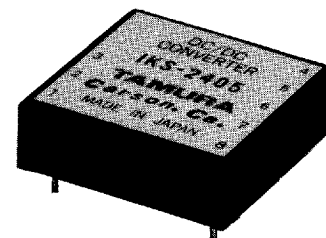


Tamura's isolation models in a Dual-In-Line package (DIP) have single and dual outputs from 300 to 3,000mW with built-in noise filter inductors and overload protection. For telcom requirements there are 48VDC quad output devices.

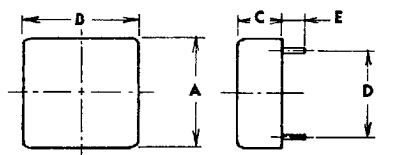
FEATURES

- Input Volt: 5VDC, $\pm 10\%$; others $\pm 20\%$.
- 48VDC range, 42 to 60V.
- Output Volt: $\pm 1\%$, Telcom, $\pm 2\%$.
- Line Reg: 0.5%; -0505, 0.8%; Telcom, 1%.
- Load Reg: 3.0%; 5VDC out, 6%; Telcom, 8%.
- Efficiency: 60% to 72% typ.
- Temp. Coef: $< 0.03/^\circ\text{C}$.

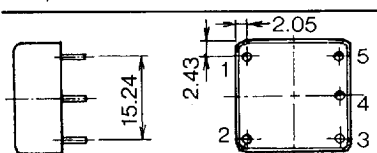
- Overload Protection: 130-200% FL.
- Operating Freq: 50 -300kHz, FL to NL.
- Ripple/Noise: 60mV typ, 100mV p-p max.
- Operating Temp: -10°C to $+70^\circ\text{C}$.
- Storage Temp: -30°C to $+85^\circ\text{C}$.
- Humidity: 95% RH.
- Case Mat'l: UL94V-0 epoxy;
0.3mm alum., 3.0W.



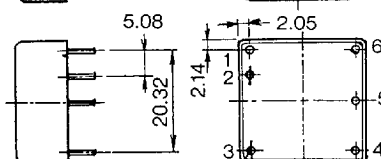
MECHANICAL DIMENSIONS



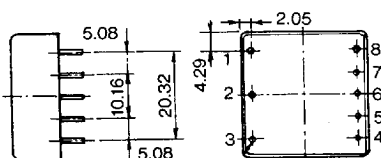
ICS, ICD Series



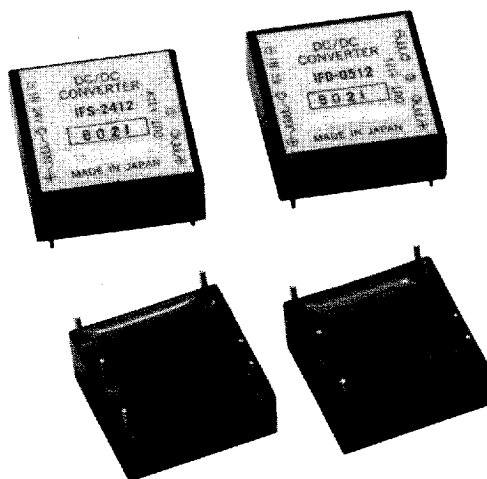
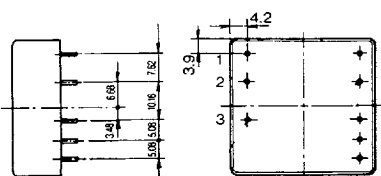
IDS, IDD Series



IFS, IFD, IFQ Series



IKS, IKD Series



ISOLATION DC/DC CONVERTERS - DIP SERIES

MODEL No	Vin (VDC)	Vout (VDC)	Iout (mA)	PRICE (qty)			
				1-9	10-24	25-99	100up

0.3 WATT

ICS-0505	5	5	60	\$16.40	\$14.80	\$13.90	\$12.30
ICS-0512	5	12	25	16.40	14.80	13.90	12.30
ICD-0512	5	± 12	12.5	17.70	15.90	15.00	13.30
ICS-1205	12	5	60	16.40	14.80	13.90	12.30
ICS-1212	12	12	25	16.40	14.80	13.90	12.30
ICD-1212	12	± 12	12.5	17.70	15.90	15.00	13.30
ICS-2405	24	5	60	16.40	14.80	13.90	12.30
ICS-2412	24	12	25	16.40	14.80	13.90	12.30
ICD-2412	24	± 12	12.5	17.70	15.90	15.00	13.30

0.5 WATT

IDS-0505	5	5	100	19.30	17.40	16.40	14.50
IDS-0512	5	12	42	19.30	17.40	16.40	14.50
IDD-0512	5	± 12	21	20.10	18.10	17.10	15.10
IDS-1205	12	5	100	19.30	17.40	16.40	14.50
IDS-1212	12	12	42	19.30	17.40	16.40	14.50
IDD-1212	12	± 12	21	20.10	18.10	17.10	15.10
IDS-2405	24	5	100	19.30	17.40	16.40	14.50
IDS-2412	24	12	42	19.30	17.40	16.40	14.50
IDD-2412	24	± 12	21	20.10	18.10	17.10	15.10

1.0 WATT

IFS-0505	5	5	200	23.90	21.50	20.30	17.90
IFS-0512	5	12	84	23.90	21.50	20.30	17.90
IFD-0512	5	± 12	42	24.70	22.20	21.00	18.50
IFS-0524	5	24	42	23.90	21.50	20.30	17.90
IFS-1205	12	5	200	23.90	21.50	20.30	17.90
IFS-1212	12	12	84	23.90	21.50	20.30	17.90
IFD-1212	12	± 12	42	24.70	22.20	21.00	18.50
IFS-2405	24	5	200	23.90	21.50	20.30	17.90
IFS-2412	24	12	84	23.90	21.50	20.30	17.90
IFD-2412	24	± 12	42	24.70	22.20	21.00	18.50

3.0 WATT

IKS-0505	5	5	600	34.30	30.90	29.20	25.70
IKD-0512	5	± 12	125	35.20	31.70	29.90	26.40
IKD-0515	5	± 15	100	35.20	31.70	29.90	26.40
IKS-0524	5	24	125	34.30	30.90	29.20	25.70
IKS-1205	12	5	600	34.30	30.90	29.20	25.70
IKS-1212	12	12	250	34.30	30.90	29.20	25.70
IKD-1212	12	± 12	125	35.20	31.70	29.90	26.40
IKS-2405	24	5	600	34.30	30.90	29.20	25.70
IKS-2412	24	12	250	34.30	30.90	29.20	25.70
IKD-2412	24	± 12	125	35.20	31.70	29.90	26.40

48V - MULTI OUTPUT

IFQ-48A	48	± 5	33.0	28.50	23.90	22.50	19.90
		± 12	7.1				
IKQ-48A	48	± 5	67.0	28.50	25.70	24.20	21.40
		± 12	14.2				

ISOLATION SERIES DIMENSIONS

SERIES PREFIX	DIMENSIONS (mm)					
	A	B	C max	D	E min	WT (gm)
ICS/ICD	20.1	20.1	8.5	16.0	4	6.3
IDS/IDD/IDQ	24.6	24.6	10.5	20.5	5	11.5
IFS/IFD/IFQ	26.9	28.9	10.5	22.8	5	14.7
IKS/IKD/IKQ	36.4	36.4	12.0	28.0	4	29.9

Note 1: Pin dia. = 0.75mm.

CONTACT TAMURA for DETAILED DATA SHEETS. FAX: 909/676/9482 or CALL: (909) 699-1270