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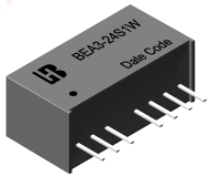
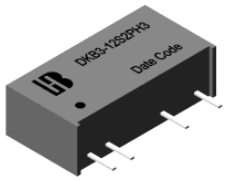
DC-DC Converter (Isolation 1.5kVdc and 3kVdc) 3W to 6W SIP

BEA3/BEA6/CEA3/DKB3- series

Pulse
a YAGEO company







- *Input Voltage Range: 9-16V, 9-36V, 18-36V and 18-75V*
- *Output Voltage Range: 5V to 48V, Single and Dual (+/-Vout)*
- *Power Level: 3W to 6W*
- *Isolation: 1.5kVdc and 3kVdc*
- *Efficiency : up to 88% , no heatsinks required*
- *Operating Temperature Range: -40°C to +105°C*
- *Additional Features:*
  - *IEC/EN 62368-1 Approved*
  - *Low Ripple and Noise,*
  - *Output Short Circuit protection*
  - *Remote On/Off control, Thermal Shut-Down*

Electrical Specification @ 25°C (For CEA3 3KVdc Isolation Op: -40°C to +85°C)

Model Number	Input Voltage Range(V)	Output Voltage (V)	Output Current (mA)		Input Current (mA)		Eff . (%)	Capacitive Load, max. (uF)
			Min. Load	Full Load	No Load	Full Load		
CEA3-12S1H3	9~18 Nominal: 12	5	100	600	30	305	82	2200

Electrical Specification @ 25°C (For BEA3 1.6KVdc Isolation Op: -40°C to +105°C)

Model Number	Input Voltage Range(V)	Output Voltage (V)	Output Current (mA)	Input Current (mA)		Eff . (%)	Capacitive Load, max. (uF)
			Full Load	No Load	Full Load		
BEA3-24S1W	9-36 Nominal: 24	5	600	20	151	83	3300
BEA3-24S2W		12	250	20	149	84	1000
BEA3-24D1W		±5	±300	20	154	81	±1000
BEA3-24D2W		±12	±125	20	152	82	±220
BEA3-24D3W		±15	±100	20	152	82	±150

Electrical Specification @ 25°C (For DKB3 3KVdc Isolation Op: -40°C to +105°C)

Model Number	Input Voltage Range(V)	Output Voltage (V)	Output Current (mA)	Input Current (mA) Typ.		Eff .(%) Typ.	Capacitive Load, max. (uF)
			Full Load	No Load	Full Load		
DKB3-05S1PH3	4.5-5.5 Nominal:5	5	600	10	750	80	470
DKB3-12S2PH3	10.8-13.2 Nominal:12	12	250	5	284	88	220

Electrical Specification @ 25°C (For BEA6 1.6KVdc Isolation Op: -40°C to +100°C)

Model Number	Input Voltage Range(V)	Output Voltage (V)	Output Current (mA)	Input Current (mA)		Eff . (%)	Capacitive Load, max. (uF)
			Full Load	No Load	Full Load		
BEA6-24S1W	9-36 Nominal: 24	5	1200	35	298	84	1100
BEA6-48S1W	18-75 Nominal: 48	5	1200	20	147	85	1100

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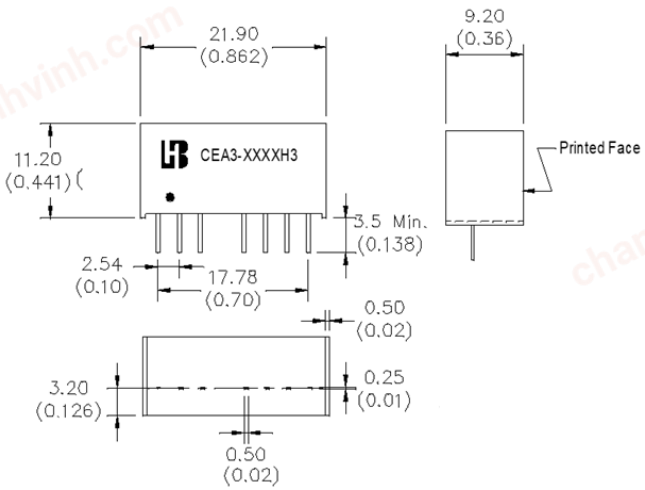
Process and Materials

1. Storage Temperature: -55ºC to +125ºC
2. Compliance to J-STD:
   A. J-STD-002: Solderability of Dipping at 255~260ºC
   B. J-STD-020: Moisture Sensitive Level 1
3. All parts are packaged in tubes - see page 4 for details
4. For full electrical characteristics, curves and applications, please refer to the detailed specification sheets available on request
5. Lead Frame: Cooper Alloy
   Underplated: Half Hard Ductile Nickel 40-118" (1.0 -3.0um)
   Over plated: 100% Tin electro-deposited per 240~400u"Min(6~10um)
   Finish: Matte finish 100% Tin solder

Mechanical

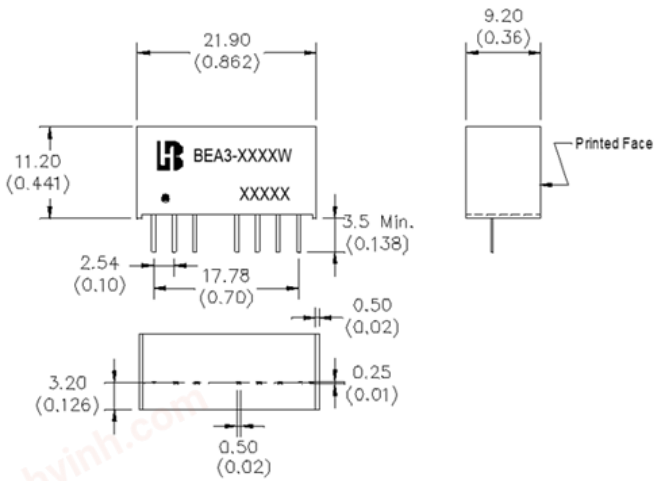
CEA3H3



	CEA3-XXXXH3	
PIN	Single	Dual
1	-Vin	-Vin
2	+Vin	+Vin
3	Ve	Ve
4	No Pin	No Pin
5	NC	NC
6	+Vout	+Vout
7	-Vout	Common
8	Cext	-Vout

Unit: mm (inch for reference only)
Pin Section tolerances +/-0.1
General tolerances +/-0.5

BEA3W / BEA6W



	BEA3/6-XXXXW	
PIN	Single	Dual
1	-Vin	-Vin
2	+Vin	+Vin
3	Remote On/Off	
4	No Pin	No Pin
5	NC	NC
6	+Vout	+Vout
7	-Vout	Common
8	NC	-Vout

Unit: mm (inch for reference only)
Pin Section tolerances +/-0.1
General tolerances +/-0.5

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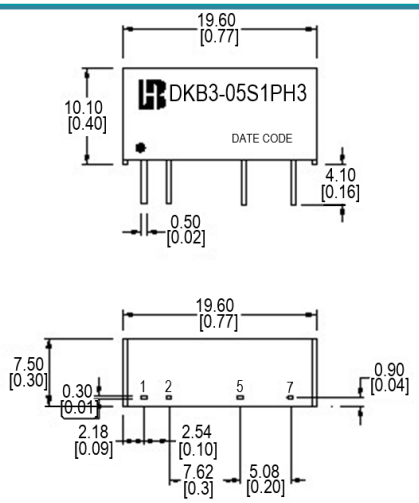
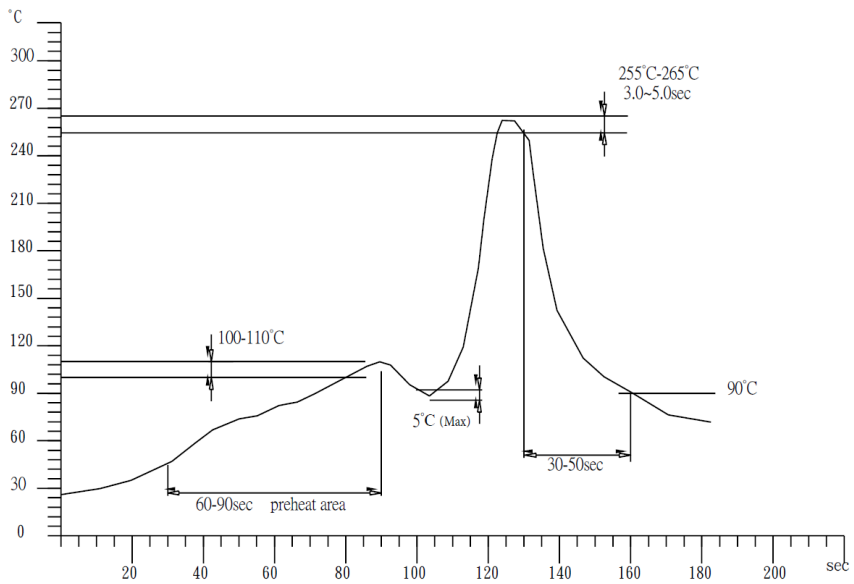
DKB3H3



	DKB3-XXXXPH3
PIN	Single
1	+Vin
2	-Vin
5	-Vout
7	+Vout

Unit: mm (inch for reference only)
Pin Section tolerances +/-0.1
General tolerances +/-0.5

Wave Soldering Temperature Curve



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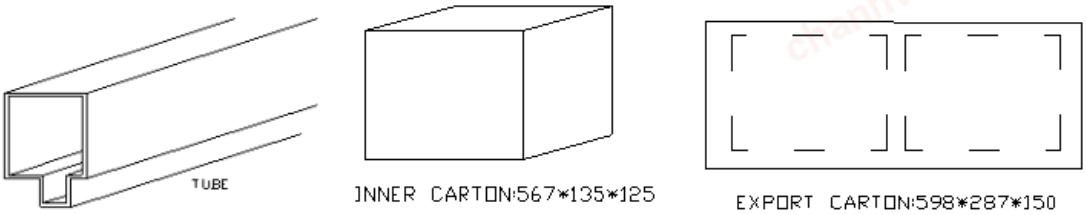
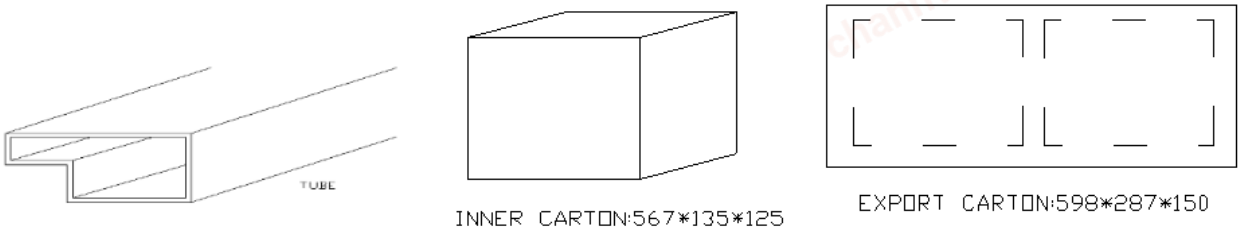
Carton Package

CEA3H3/BEA3W/BEA6



TUBE=23PCS
INNER CARTON=45 TUBE=1035PCS
EXPORT CARTON=2 INNER CARTON=2*1035=2070PCS

DKB3PH



TUBE=25PCS
INNER CARTON=50 TUBE=50*25=1250PCS
ECPORT CARTON=2 INNER CARTON=2*1250=2500PCS

For More Information:
Americas - prodinfo_network_americas@yageo.com | **Europe -** prodinfo_network_emea@yageo.com | **Asia -** prodinfo_network_asia@yageo.com

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