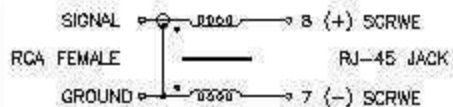
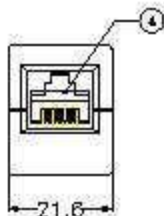
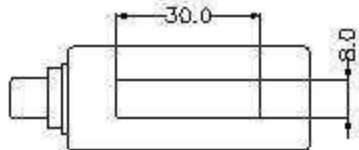
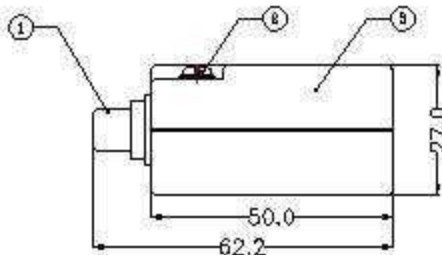
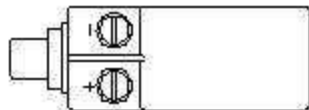


FILE NO. \_\_\_\_\_



TECHNICAL SPECIFICATION :

- TRANSMISSION BANDWIDTH DC (50Hz) TO 8MHz
- TRANSMISSION DISTANCE 600 METRES(24 AWG UTP)MAX.
- INSERTION LOSS < 2 dB
- SIGNAL RETURN LOSS  $\geq -15$ dB
- COMMON MODE REJECTION  $\geq -40$ dB @ 8MHz
- SIGNAL VOLTAGE 0.5 TO 1.5V rms

5	1 Set	TRANSFORMER 1:1	
4	1 Set	RJ45 JACK, GOLD SMD/ P/C WIRE 26 AWG UL-1004	
3	1 Set	PLASTIC SET(TOP, BOTTOM/SIDE COVER)	J&C UL41-0
2	2 PCS	GAP HEAD TYPE SCREW	
1	1 Set	RCA FEMALE SOLDER TYPE	
NO.	Q'TY	MATERIAL	NOTE

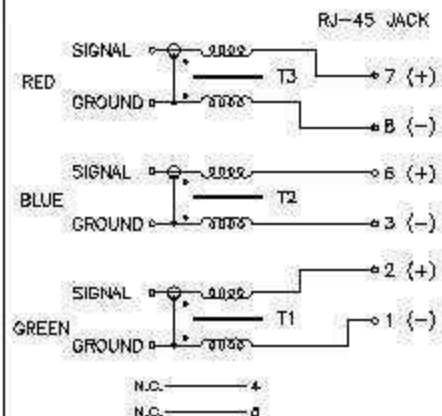
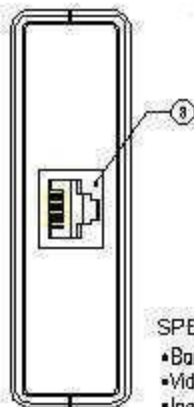
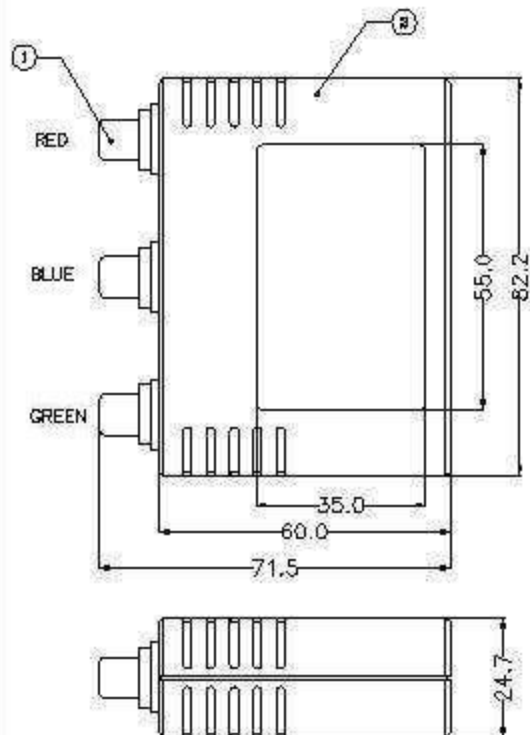
UNIT: mm  
 TOLERANCE  
 %  
 30.0 ±0.25  
 20.0 ±0.1  
 25.0 ±0.1  
 1.0 ±0.1  
 ANGLES

TITLE: CCTV  
 VIDEO BALUN (75 Ω : 100 Ω)  
 RCA PLUG TO RJ45 UNSHIELDED JACK WITH SCREW

MCM Custom Audio  
 50-7710

DWG NO. 03-4011-11  
 SCALE: 1/1

DATE: Stephen-Lin  
 DESIGNED: ONE  
 CHECKED: ONE  
 DATE: May/30/2003

FILE NO. 

## SPECIFICATION:

- Bandwidth : Video DC TO 8MHz
- Video Input : 1.1 Vp-p max.
- Insertion Loss :  $\leq 2$ dB over the frequency range from DC to 8 MHz
- Return Loss :  $\geq 15$ dB over the frequency range from DC to 8 MHz
- Common Mode Rejection :  $\geq 40$ dB at 8 MHz
- Impedance : 75 ohms(video)
- Cable-UTP : 24 gauge or lower solid copper twisted pair wire  
Impedance: 100 ohms at 1MHz  
Max. Capacitance: 20 pf/ft  
Attenuation: 6.6 dB/1000ft at 1 MHz
- Transmission Distance : (Color) 330 feet (Cat 3 UTP) 500 feet (Cat 5 UTP)

4	1 Set	PCB SET (TRANSFORMER 1:1) x 3	
3	1 Set	PCB TYPE SHIELDED JACK, GOLD SW.	
2	1 Set	PLASTIC SET(TOP, BOTTOM,SIDE COVER)	ABS UL94V-0
1	3 PCS	RCA FEMALE SOLDER TYPE	
ND.	QTY	MATERIAL	NOTE

UNIT: mm  
TOLERANCE:  
30.28  
30.1  
30.16  
3.17  
ANGLES

TITLE  
RGB Video Balun  
3 x RCA Female TO 1 x RJ45 Jack

MCM Custom Audio  
50-7720

DWG NO. 03-R403-00

DRW Stephen-Lin

DATE 10/14/2004

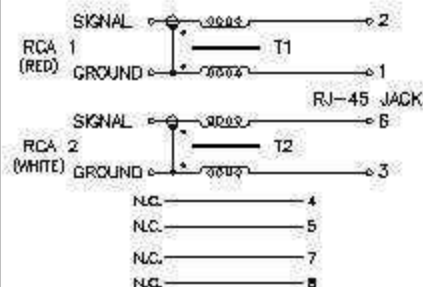
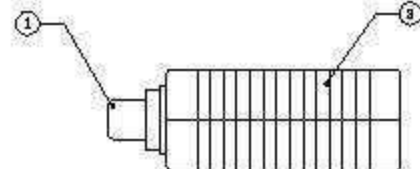
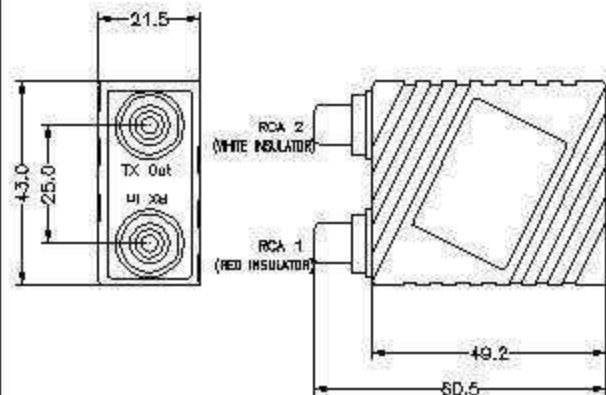
SCALE 1/1

SHEET of

REVISED

DATE

FILE NO.



## SPECIFICATION:

- Bandwidth : 10Hz to 50KHz  $\pm 3$  dB
- Impedance : 600-600 ohms (Audio) , unbalanced to balanced
- Connectors : two RCA to one RJ45
- Isolation : 500 V
- Nominal Level : 1.0 volts
- Insertion Loss : < 1dB
- Common Mode Rejection: Greater than 40 dB
- Cable-UTP : UTP:24 gauge or lower solid copper  
UTP : Impedance: 100 ohms at 1MHz  
Max. Capacitance: 20 pf/ft  
Attenuation: 6.6 dB/1000 ft at 1 MHz
- Max. Distance : 2500feet (Cat 6)
- Temperature : Operating: 0° to 55° C  
Storage: -20° to 85° C  
Humidity: up to 95%

4	F.C.B.	1 Set	TRANSFORMER 1:1 x 2		
3	RJ45 JACK	1 Set	PCB TYPE SHIELDED JACK, GOLD TIPS		
2	PLASTIC SET	2 Set	TOP, BOTTOMSIDE COVER-ABS USM-0 or EQUIVALENT		
1	RCA CONNECTOR	2 Set	RCA FEMALE SOLIDER TYPE(RED,WHITE COLOR)		
NO.	NAME	Q'TY	MATERIAL	NOTE	

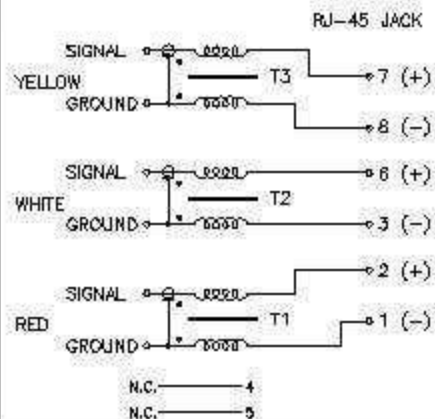
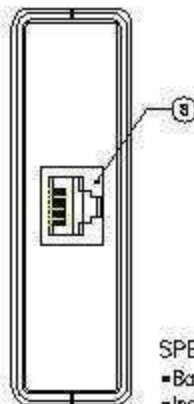
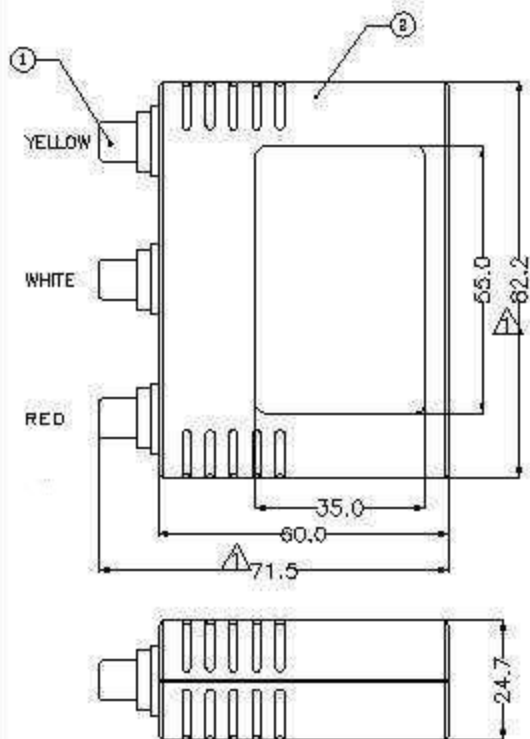
UNIT: mm	
TOLERANCE	
∅	±0.25
∅	±0.1
∅	±0.05
ANGLES	±1°

TITLE  
RCA AUDIO BALUN  
DOUBLE RCA PLUG TO RJ45 SHIELDED JACK

MCM Custom Audio  
50-7725

REV. NO.	03-4049-00	DESIGN	Stephen-Lin	DATE	06/26/2002
SCALE	1/1	DRAWN		CHECKED	
SHEET	1/1	DATE		APPROVED	

FILE NO.



## SPECIFICATION:

- Bandwidth : Video DC TO 8MHz Audio 20Hz to 50KHz
- Insertion Loss :  $\leq 2$ dB over the frequency range from DC to 8 MHz
- Return Loss :  $\geq 15$ dB over the frequency range from DC to 8 MHz
- Common Mode Rejection :  $\geq 40$ dB at 8 MHz
- Impedance : RCA side 75 ohms (video), 600 ohms (Audio)
- Cable : 24 gauge or lower solid copper twisted pair wire  
Impedance: 100 ohms at 1MHz  
Max. Capacitance: 20 pf/ft  
Attenuation: 6.6 dB/100ft at 1MHz
- Transmission Distance : 500 feet (Cat 5 UTP)

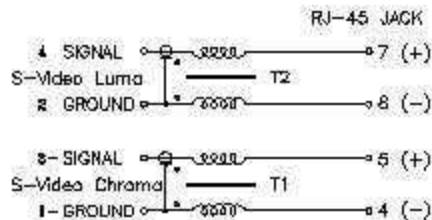
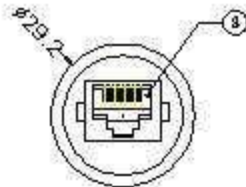
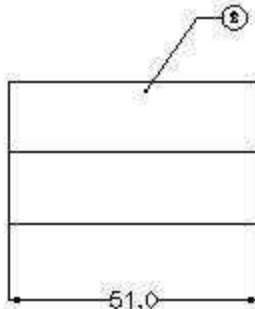
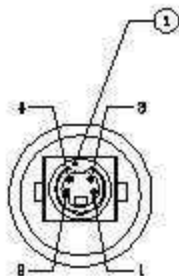
4	1 Set	PCB SET (TRANSFORMER 1H) x 3		
3	1 Set	PCB TYPE SHIELDED JACK GOLD 50U"		
2	1 Set	PLASTIC SETTOP, BOTTOM/SIDE COVER		AB 10/14-0
1	3 PCS	RCA FEMALE SOLDER TYPE		
NO.	QTY	MATERIAL		NOTE

UNIT: mm  
TOLERANCE  
3x ±0.25  
3.00 ±0.25  
ANGLES ±1°

TITLE: CCTV  
TRANSCHEMER BOX (2A+D)  
3 x RCA Female TO 1 x RJ45 Jack

MCM Custom Audio  
50-7730

DWG NO. 03-B259-00  
DESIGNER Stephen-Lin  
DATE 04/20/2004  
SCALE 1/1  
SHEET 01  
REVISION DATE 11/03/2004  
CHECKED  
APPROVED  
DATE

FILE NO. 

## SPECIFICATION:

- Bandwidth : Video DC TO 6MHz Audio 105 Hz to 20 KHz
- Max. Input-Audio or Video : 1.1 Vp-p
- Insertion Loss :  $\leq 20$ dB over the frequency range from DC to 8 MHz
- Return Loss :  $\geq 15$ dB over the frequency range from DC to 8 MHz
- Common Mode Rejection :  $\geq 40$ dB at 8 MHz
- Impedance : S-Video 75 ohms , 600 ohms (Audio)
- Cable-UTP : 24 gauge or lower solid copper twisted pair wire  
Impedance: 100 ohms at 1MHz  
Max. Capacitance: 20 pF/ft  
Attenuation: 6.8 dB/1000ft at 1MHz
- Transmission Distance : 1000 feet (Cat 5 UTP)
- Temperature : Operating: 0° to 55° C  
Storage: -22° to 85° C  
Humidity: up to 95%

4	1 Set	PCB SET (TRANSFORMER 1:1) x 2	
3	1 Set	PCB TYPE SHIELDED JACK, GOLD 50*	
2	1 Set	PLASTIC SET (TOP, BOTTOM SIDE COVER)	ABS UG94-0
1	1 PCS	S-VIDEO FEMALE SOLDER TYPE	
NO.	Q'TY	MATERIAL	NOTE

UNIT: mm



TOLERANCE

 .005  
 .010  
 .015  
 .020  
 .030  
 .040  
 .050  
 .060  
 .070  
 .080  
 .090  
 .100  
 .120  
 .150  
 .200  
 .250  
 .300  
 .400  
 .500  
 .600  
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 1.000  
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 200.000  
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 400.000  
 500.000  
 600.000  
 800.000  
 1000.000

 .005  
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 400.000  
 500.000  
 600.000  
 800.000  
 1000.000

TITLE:

 SUPER VALUE BALUN  
 S-Video Female TO RJ45 Jack

 MCM Custom Audio  
 50-7735

DWS NO.

03-6001-00

BY:

Stephen-Lin

DATE

34/20/2004

SCALE

1/1

SHEET

of

DRAWN BY

DATE

11/03/2004

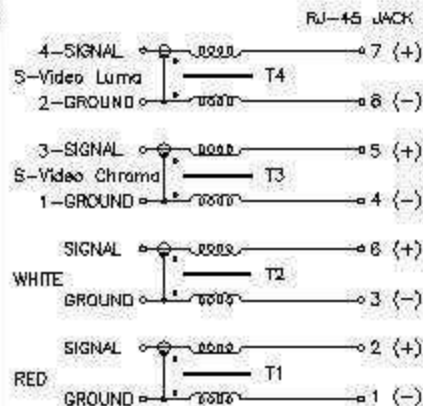
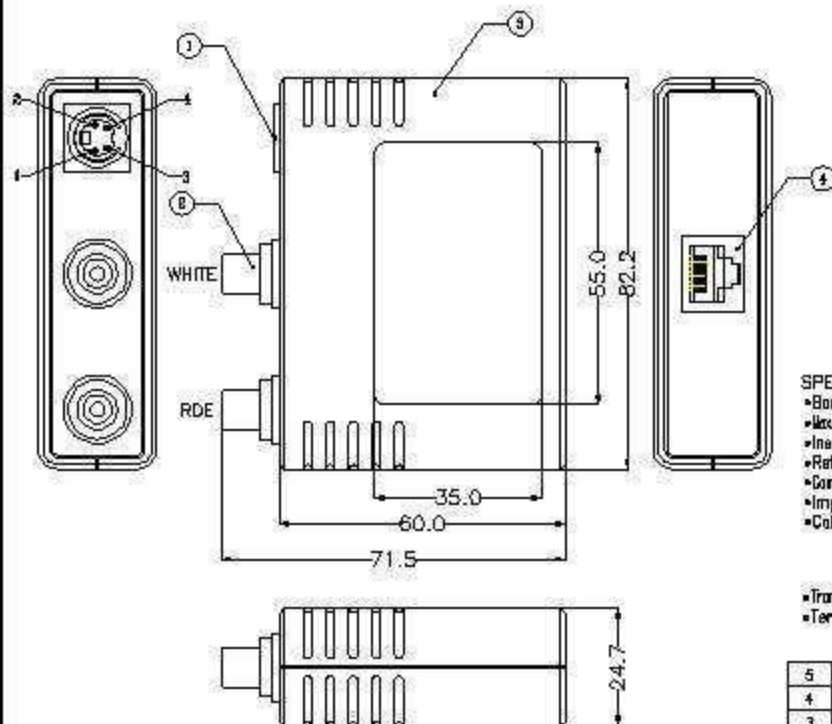
CHECKED

DATE

DATE

DATE

FILE NO.



## SPECIFICATION:

- Bandwidth : Video DC TO 6MHz Audio 105 Hz to 20 KHz
- Max. Input-Audio or Video : 1.1 Vp-p
- Insertion Loss :  $\leq 2$ dB over the frequency range from DC to 8 MHz
- Return Loss :  $\geq 15$ dB over the frequency range from DC to 8 MHz
- Common Mode Rejection :  $\geq 40$ dB at 8 MHz
- Impedance : S-Video 75 ohms , 800 ohms (Audio)
- Cable-UTP : 24 gauge or lower solid copper twisted pair wire.  
 Impedance: 100 ohms at 1MHz  
 Max. Capacitance: 20 pf/ft  
 Attenuation: 8.8 dB/1000ft at 1MHz
- Transmission Distance : 1000 feet (Cat 5 UTP)
- Temperature : Operating: 0° to 55° C  
 Storage: -22° to 85° C  
 Humidity: up to 95%

5	1 Set	PCB SET (TRANSFORMER 1d) ± 4	
4	1 Set	PCB TYPE SHIELDED JACK, RIGID 30"	
3	1 Set	PLASTIC SET(TOP, BOTTOMSIDE COVER)	MS US347-0
2	2 PCS	RCA FEMALE SOLDER TYPE	
1	1 PCS	S-VIDEO FEMALE SOLDER TYPE	
NO.	Q'TY	MATERIAL	NOTE

UNIT: mm

TOLERANCE  
 DIM.  
 HOLE  
 ANGLESHOLE  
 ANGLES

TITLE:

SUPER VALUE BALUN(204-20)  
 1 x S-Video Female and  
 2 x RCA Female TO 1 x RJ45 Jack

MCM Custom Audio  
 50-7740

DWG NO.

03-6003-00

DRW

Stephen-Lin

DATE

09/30/2004

SCALE

1/1

SHEET

of

1

REVISED DATE

10/14/2004

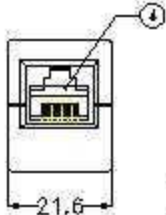
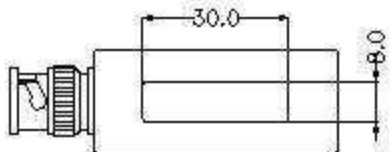
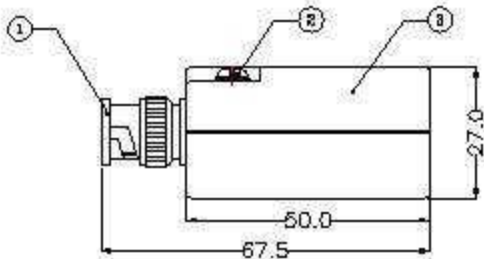
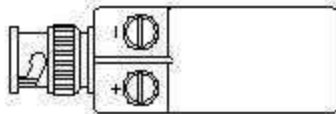
DRAWN

DATE

09/30/2004



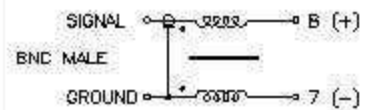
FILE NO.



RJ-45 JACK

SCREW(+) ————— 1,2 (+)DC POWER

SCREW(-) ————— 4,5 (-)DC POWER



TECHNICAL SPECIFICATION :

- TRANSMISSION BANDWIDTH DC (50Hz) TO 8MHz
- TRANSMISSION DISTANCE 800 METRES(24 AWG UTP)MAX.
- INSERTION LOSS < 2 dB
- SIGNAL RETURN LOSS  $\geq -15$ dB
- COMMON MODE REJECTION > -40dB @ 8MHz
- SIGNAL VOLTAGE 0.5 TO 1.5V rms

5	1 Set	PCB SET (TRANSFORMER 1:1)	
4	1 Set	RJ45 JACK, GOLD 50 $\mu$ P/C WIRE 18 AWG UL-1081	
3	1 Set	PLASTIC SET(TOP, BOTTOMSIDE COVER)	AS 18AWG-0
2	2 PCS	CAP HEAD TYPE SCREW	
1	1 Set	BNC MALE SOLDER TYPE	
NO.	Q'TY	MATERIAL	NOTE

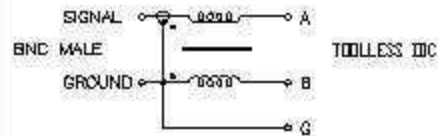
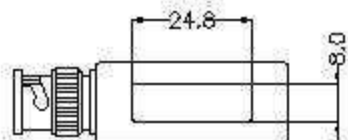
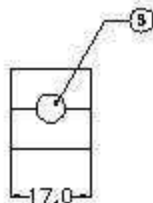
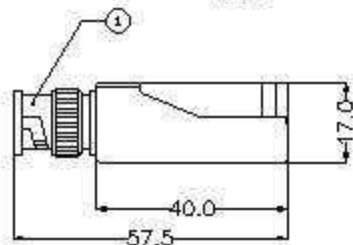
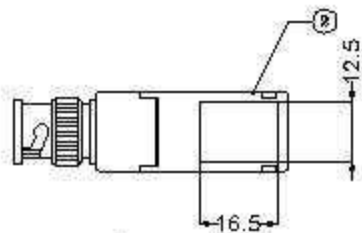
UNIT: mm	
TOLERANCE	$\pm 0.25$
	$\pm 0.1$
	$\pm 0.05$
ANGLES	$\pm 1^\circ$

TITLE: (for DC POWER)  
VIDEO BALUN (75 $\Omega$ ; 100 $\Omega$ )  
BNC PLUG TO RJ45  
UNSHIELDED JACK WITH SCREW

MCM Custom Audio  
50-7745

DN NO	03-2111-D3	DRN	Stephen-Lin	MT	03/13/2003
SIZE	1/1	DATE	10/14/2004	MT	

FILE NO.



## TECHNICAL SPECIFICATION :

- TRANSMISSION BANDWIDTH DC (50Hz) TO 8MHz
- TRANSMISSION DISTANCE 600 METRES(24 AWG UTP)MAX.
- INSERTION LOSS < 2 dB
- SIGNAL RETURN LOSS  $\geq$  -15dB
- COMMON MODE REJECTION > -40dB @ 8MHz
- SIGNAL VOLTAGE 0.5 TO 1.5V rms

4	1 Set	PCB SET (TRANSFORMER 1:d)	
3	1 Set	TOOLLESS IDC	ABS ULTM-0
2	1 Set	PLASTIC SET(TOP, BOTTOM,SIDE COVER)	ABS ULTM-0
1	1 Set	BNC MALE SOLDER TYPE	
NO.	Q'TY	MATERIAL	NOTE

UNIT: mm

 TOLERANCE  
 HOLE  
 ±0.1  
 HOLE  
 ±0.1  
 HOLE  
 ±0.1  
 HOLE  
 ±0.1


TITLE:

 VIDEO BALUN (75Ω : 100Ω)  
 BNC PLUG TO TOOLLESS IDC

 MCM Custom Audio  
 50-7750

DWG NO.

03-2180-71

DRAWN

Stephen-Lin

DATE

02/14/2004

SCALE

1/1

SHEET

of

TOTAL SHEET

CHECKED

DATE

DATE