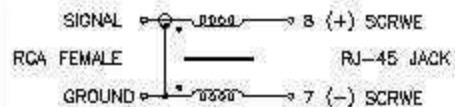
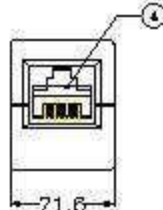
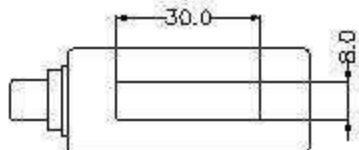
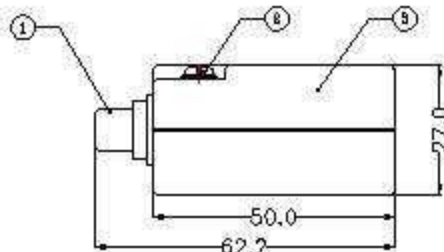
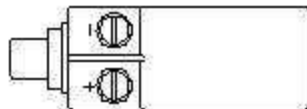


FILE NO. 

TECHNICAL SPECIFICATION :

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

5	1 Set	TRANSFORMER 1:1	
4	1 Set	RJ45 JACK, GOLD SOLDER/ PVC WIRE 24 AWG UL-1004	
3	1 Set	PLASTIC SET (TOP, BOTTOM/SIDE COVER)	JAC UL441-0
2	2 PCS	CAP HEAD TYPE SCREW	
1	1 Set	RCA FEMALE SOLDER TYPE	
NO.	Q'TY	MATERIAL	NOTE

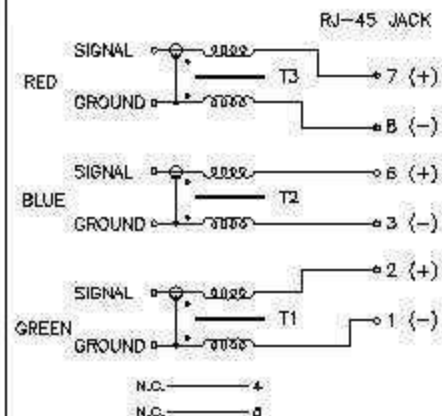
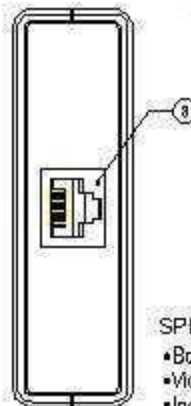
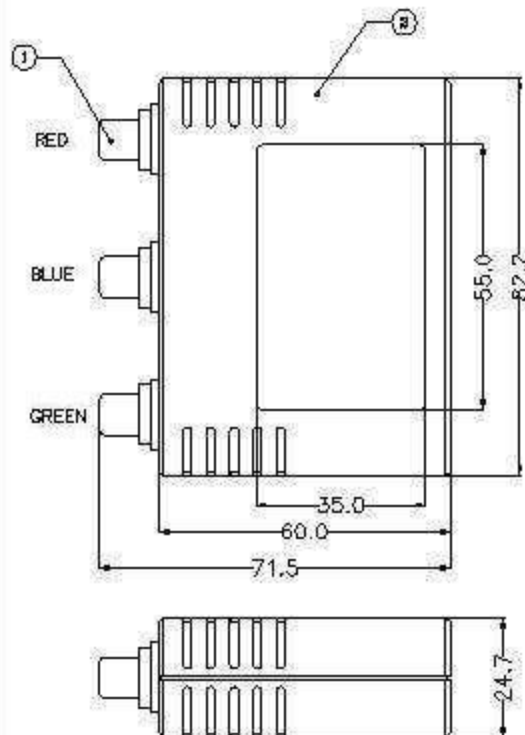
UNIT: mm
TOLERANCE
%
DIM.
ANGLES

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

MCM Custom Audio
50-7710

DWG NO. 03-4011-11
SCALE: 1/1
SHEET: 1 of 1
DESIGN: Stephen-Lin
DATE: May/30/2003

RULE NO. _____



SPECIFICATION:

- Bandwidth : Video DC TO 3MHz
- Video Input : 1.1 Vp-p max.
- Insertion Loss : $\leq 2\text{dB}$ over the frequency range from DC to 8 MHz
- Return Loss : $\geq 15\text{dB}$ over the frequency range from DC to 8 MHz
- Common Mode Rejection : $\geq 40\text{dB}$ 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 50u"		
2	1 Set	PLASING SET(TOP, BOTTOM,SIDE COVER)	ABS UL94V-0	
1	3 PCS	RCA FEMALE SOLDER TYPE		
NO.	Q'TY	MATERIAL	NOTE	
DWG NO.	03-R403-00		DRN Stephen-Lin	DATE 10/14/2004
SCALE	SHEET 1/1	of TOTAL 1	DESIGN	DATE
			UPDTE	DATE

UNIT: mm
TOLERANCE
X .25
3X .125
ANGLES 3°

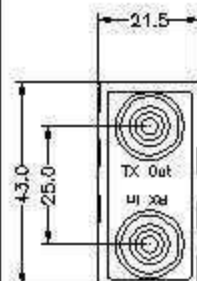


TITLE

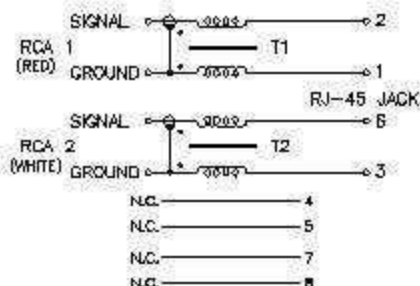
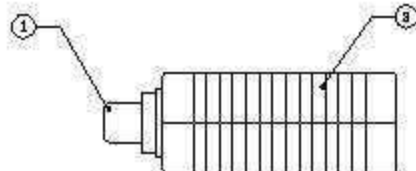
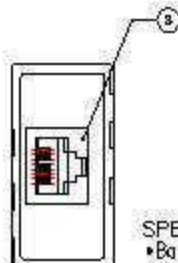
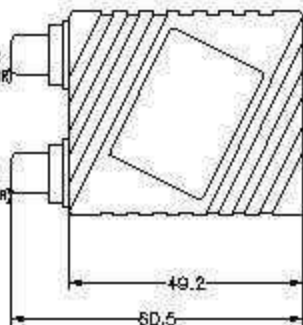
RGB Video Balun
3 x RCA Female TO 1 x RJ45 Jack

MCM Custom Audio
50-7720

FILE NO.

RCA 2
(WHITE INSULATOR)RCA 1
(RED INSULATOR)

①



SPECIFICATION:

- Bandwidth : 10Hz to 50KHz ± 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%

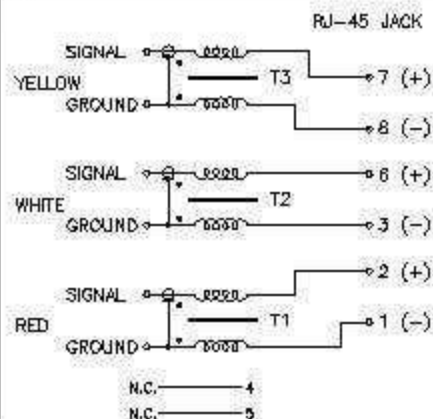
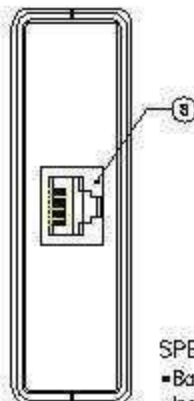
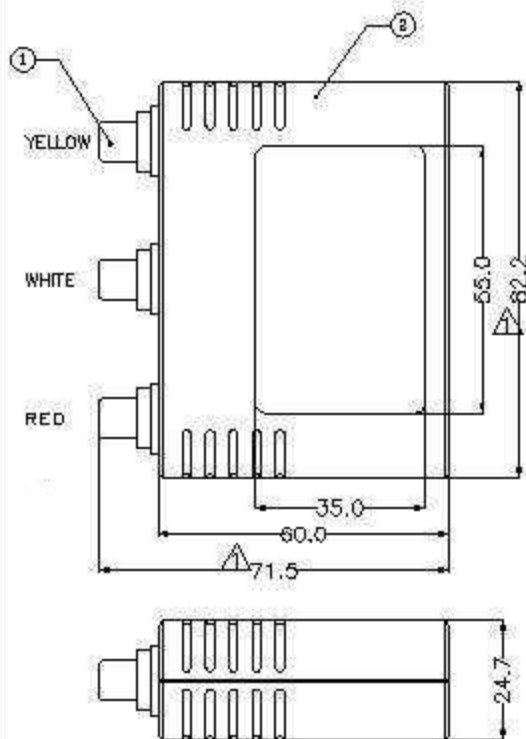
4	P.C.B.	1 Set	TRANSFORMER 1:1 x 2	
3	RJ45 JACK	1 Set	PCB TYPE SHIELDED JACK, GOLD TAV	
2	PLASTIC SET	2 Set	TOP, BOTTOMSIDE COVER-ABS USAW-0 or EQUIVALENT	
1	RCA CONNECTOR	2 Set	RCA FEMALE SOLDER TYPE(RED,WHITE COLOR)	
NO.	NAME	Q'TY	MATERIAL	NOTE
REV. NO.			03-4049-00	DATE
SIZE			1/1	1/1
SHEET			1/1	1/1
DATE			1/1	1/1
BY			Stephen-Lin	06/26/2002
CHECKED				
APPROVED				

UNIT: mm	
TOLERANCE	
XXX	±0.25
XXX	±0.1
XXX	±0.05
XXX	±0.02

TITLED

RCA AUDIO BALUN
DOUBLE RCA PLUG TO RJ45 SHIELDED JACKMCM Custom Audio
50-7725

FILE NO.



SPECIFICATION:

- Bandwidth : Video DC TO 8MHz Audio 20Hz to 50KHz
- Insertion Loss : $\leq 2\text{dB}$ over the frequency range from DC to 8 MHz
- Return Loss : $\geq 15\text{dB}$ over the frequency range from DC to 8 MHz
- Common Mode Rejection : $\geq 40\text{dB}$ 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/1000ft 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, BOTTOMSIDE COVER	AB 10044-0
1	3 PCS	RCA FEMALE SOLDER TYPE	
NO.	Q'TY	MATERIAL	NOTE

UNIT: mm
TOLERANCE
3x
2.00
ANGLES
±1°



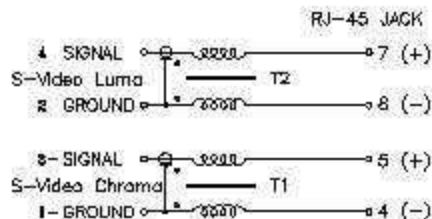
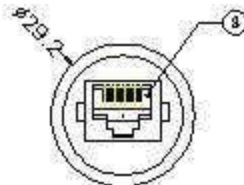
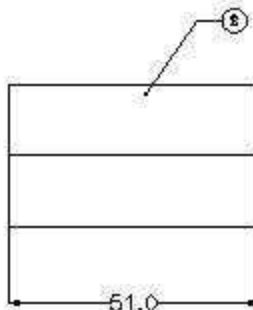
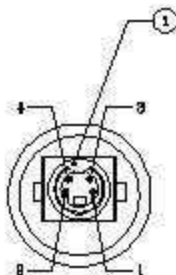
TITLE: CCTV
TRANSCIVER BOX (2A+D)
3 x RCA Female TO 1 x RJ45 Jack

MCM Custom Audio
50-7730

Q'Y NO. 03-B259-00
SCALE 1/1
SHEET 11
DATE 11/03/2004

DRW Stephen-Lin
CHKD
APP'D
DATE 04/20/2004

FILE NO.



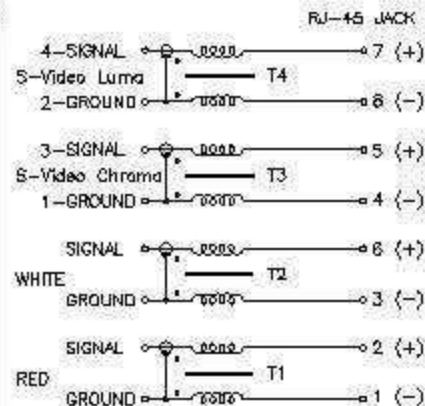
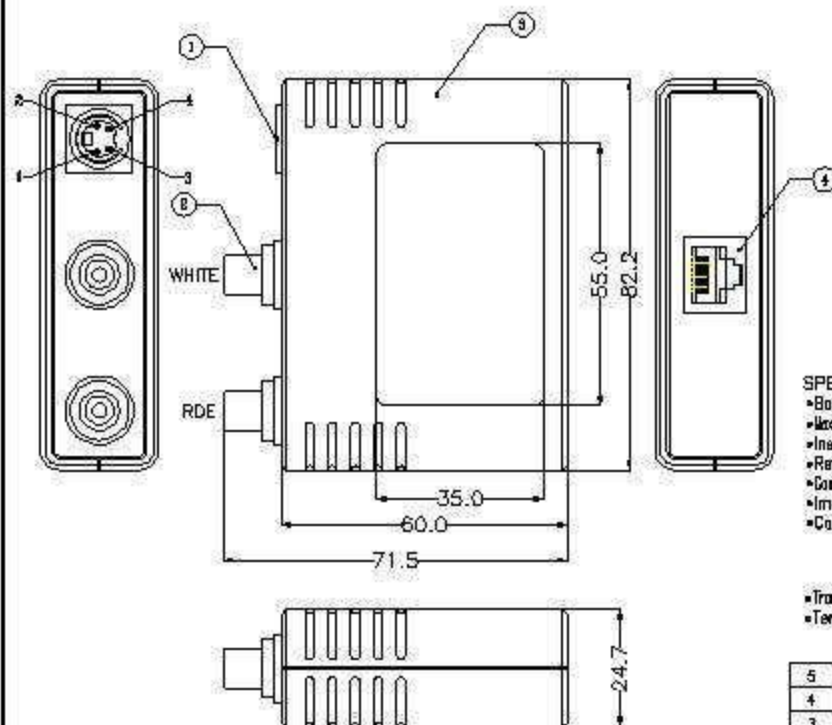
SPECIFICATION:

- Bandwidth : Video DC TO 6MHz Audio 105 Hz to 20 KHz
- Max. Input-Audio or Video : 1.1 Vp-p
- Insertion Loss : $\leq 2\text{dB}$ over the frequency range from DC to 8 MHz
- Return Loss : $\geq 15\text{dB}$ over the frequency range from DC to 8 MHz
- Common Mode Rejection : $\geq 40\text{dB}$ 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: 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%

4	1 Set	PCB SET (TRANSFORMER 1:1) x 2	
3	1 Set	PCB TYPE SHIELDED JACK, GOLD 50u"	
2	1 Set	PLASTIC SET (TOP, BOTTOM, SIDE COVER)	ABS U304-0
1	1 PCS	S-VIDEO FEMALE SOLDER TYPE	
NO.	Q'TY	MATERIAL	NOTE
DWG NO.	Q3-6001-00	BY Stephen-Lin	DATE 34/20/2004
SCALE	1/1	DATE 11/03/2004	

 UNIT: mm
 TOLERANCE
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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 : ≤ 2 dB over the frequency range from DC to 8 MHz
- Return Loss : ≥ 15 dB over the frequency range from DC to 8 MHz
- Common Mode Rejection : ≥ 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 1st) ± 4	
4	1 Set	PCB TYPE SHIELDED JACK, GOLD 50U"	
3	1 Set	PLASTIC SET (TOP, BOTTOMSIDE COVER)	MS US34V-0
2	2 PCS	RCA FEMALE SOLDER TYPE	
1	1 PCS	S-VIDEO FEMALE SOLDER TYPE	
NO.	Q'TY	MATERIAL	NOTE
NO. NO.	03-6003-00	Stephen-Lin	09/30/2004
SCALE	SHEET 1/1	REVISION	DATE
		10/14/2004	

UNIT: mm


 TOLERANCE
 DECIMAL
 FRACTIONAL
 ANGLES

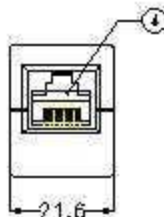
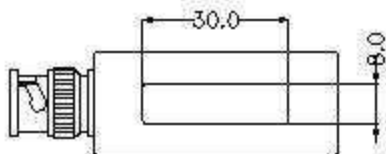
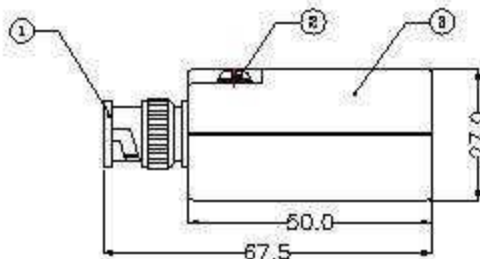
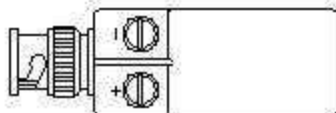
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TITLE:

 SUPER VALUE BALUN(2D+2V)
 1 x S-Video Female and
 2 x RCA Female TO 1 x RJ45 Jack

 MCM Custom Audio
 50-7740

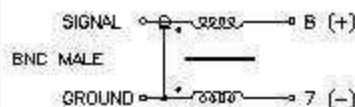
FILE NO.



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 ≥ -15 dB
- COMMON MODE REJECTION > -40dB @ 8MHz
- SIGNAL VOLTAGE 0.5 TO 1.5V rms

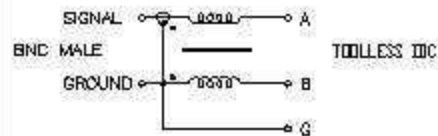
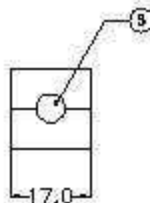
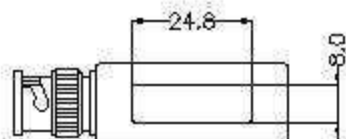
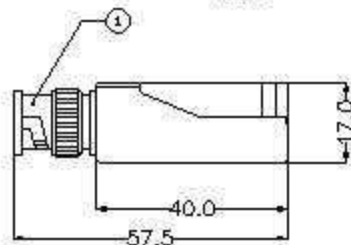
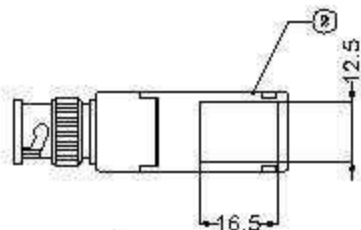
5	1 Set	PCB SET (TRANSFORMER 1:1)	
4	1 Set	RJ45 JACK, GOLD 50 μ PVC WIRE 18 AWG UL-1081	
3	1 Set	PLASTIC SET(TOP, BOTTOMSIDE COVER)	AS DRAW-0
2	2 PCS	CAP HEAD TYPE SCREW	
1	1 Set	BNC MALE SOLDER TYPE	
NO.	Q'TY	MATERIAL	NOTE
REV	NO.	03-2111-D3	BY Stephen-Lin DATE 03/13/2003
SOME	SHEET 1/1	DATE 10/14/2004	BY

UNIT: mm	
TOLERANCE	± 0.25
ANGLES	± 0.1

TITLE: (for DC POWER)
VIDEO BALUN (75 Ω : 100 Ω)
BNC PLUG TO RJ45
UNSHIELDED JACK WITH SCREW

MCM Custom Audio
50-7745

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 ≥ -15 dB
- COMMON MODE REJECTION > -40dB @ 8MHz
- SIGNAL VOLTAGE 0.5 TO 1.5V rms

4	1 Set	PCB SET (TRANSFORMER 1:1)	
3	1 Set	TOOLLESS IDC	ABS ULTIM-0
2	1 Set	PLASTIC SET (TOP, BOTTOM SIDE COVER)	ABS ULTIM-0
1	1 Set	BNC MALE SOLDER TYPE	

NO.	Q'TY	MATERIAL	NOTE
03-2180-71		Stephen-Lin	02/14/2004
SCALE	1/1		

UNIT: mm
TOLERANCE
HOLE
WALLS

TITLE:

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

MCM Custom Audio
50-7750