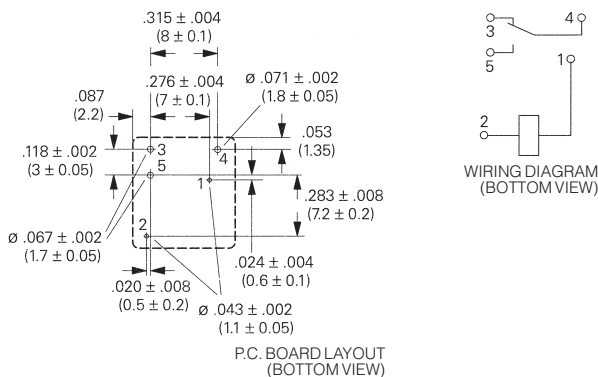
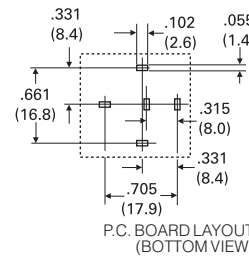
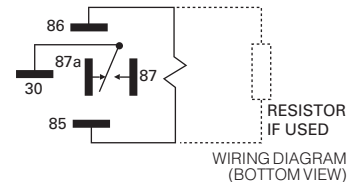
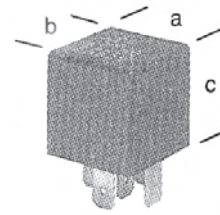


S89/S90 IMPULSE RELAYS

Cat. No.	Coil			Contacts		Net Price
	Input	Res. in Ohms	Nom. Power	Arrang.	Amp Rating	
S89 RELAYS (OPEN STYLE)						
S89R5ABD1-24	24	8.7	9VA	SPDT	15●*	\$40.00
S89R5ABD1-120	120	260				35.35
S89R5DBD1-12	12	22.5	6.33W	SPDT	15●*	40.00
S89R11AAC1-24	24	8.7	9VA	DPDT	15●*	45.33
S89R11AAC1-120	120	260				45.33
S89R11ABD1-24	24	8.7	9VA	DPDT	15●*	38.81
S89R11ABD1-120	120	260				38.81
S89R11DAC1-12	12	22.5	6.33W	DPDT	15●*	43.14
S89R11DAC1-24	24	92				43.14
S89R11DBD1-12	12	22.5	6.33W	DPDT	15●*	36.80
S89R11DBD1-24	24	92				36.80
S89R17AAC1-120	120	260	9VA	4PDT	15●*	36.80
S89 RELAYS (ENCLOSED)						
S89R11APP1-24	24	8.7	9VA	DPDT	15●*	120.81
S89R11APP1-120	120	260	9VA	DPDT	10	91.46
S90 RELAYS (OPEN STYLE)						
S90R5ABD1-120	120	260	9VA	SPDT	20●*	39.81
S90R11ABD1-120	120	260	9VA	DPDT	20●*	50.17

S89R11AAC1-24: "AC1" denotes .187 (4.75) quick connects.
 S89R11ABD1-24: "BD1" denotes .250 (6.35) quick connects.
 S89R11APP1-120: "PP1" denotes enclosed relay with octal-type plug. See KRPA/KRP section for sockets.
 S89R5ABD1-120: "A" denotes AC coil.
 S89R5DBD1-120: "D" denotes DC coil.
 ●Denotes UL.
 *Denotes CSA.
Note: Open style relays mount via two #8-32 tapped holes on 1.844 (46.8) centres.



V23086 SERIES AUTOMOTIVE RELAYS

Cat. No.	Coil			Contacts	
	Input (VDC)	Res. in Ohms	Nom. Power in mW	Arrang.	Amp Rating
V23086C1001A303	12	130	550	SPDT	20
V23086C1001A403	12	130	550	SPDT	20

V23086C1001A303: "3" denotes AgNi 0.15 contacts.
 V23086C1001A403: "4" denotes AgSnO contacts.
NOTE: contact your Electro Soic sales representative for pricing.

VF4 SERIES

40 AMP RELAY WITH PC BOARD OR QUICK CONNECT TERMINALS FOR AUTOMOTIVE APPLICATIONS

Only necessary terminals are present on single throw models.

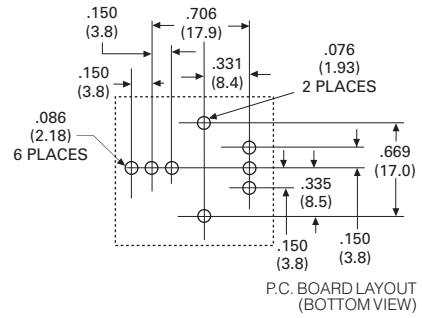
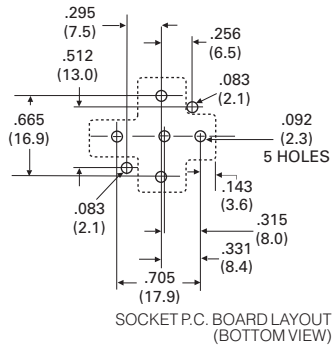
FEATURES:

- 1 Form A and 1 Form C arrangements.
- Plug-in or PC board terminals.
- Optional mounting bracket.
- Various enclosure options.
- Approx. dimensions a(28.5) × b(28.5) × c(25.1h).
- Weight 31g.
- Contact Rating @ 85°C (Form A contacts with nominal coil voltage): 40A @ 14VDC.

VF4 AUTOMOTIVE RELAYS

Cat. No.	Coil			Contacts		Net Price
	Input (VDC)	Res. in Ohms	Nom. Power in W	Arrang.	Amp Rating	
RELAYS WITH DUST COVER						
VF4-11F13	12	90	1.6	SPST-NO	40	\$5.76
VF4-15F13-C01	12	90	1.6	SPDT	40	6.58
VF4-15H13	24	360	1.6	SPDT	40	6.04
RELAYS WITH DUST COVER & METAL MTG. BRACKET						
VF4-41F11	12	90	1.6	SPST-NO	40	3.99
VF4-45H11	24	360	1.6	SPDT	40	3.62
RELAYS WITH WEATHERPROOF COVER WITH BRACKET						
VF4-65F11	12	90	1.6	SPST-NO	40	5.78

VF4-11F11: "11" denotes quick connect terminals.
 VF4-15F13: "3" denotes P.C. board terminals.
 VF4-11F13-C01: "C01" denotes epoxy sealed unit.



ACCESSORIES FOR VF4 AUTOMOTIVE RELAYS

PC BOARD SOCKET FOR VF4 QUICK CONNECT RELAYS

Cat. No.	Net Price
VCF4-1000	\$1.83

WIRING HARNESS STYLE CONNECTOR FOR VF4 QUICK CONNECT

Cat. No.	Net Price
VCF4-1001	\$.69

CRIMP TERMINALS FOR USE WITH VCF4-1001

Cat. No.	Wire AWG	1 Form A Qty. Required	1 Form C Qty. Required
26A1349A	12-16	4	5
26A1349B	14-18	4	5

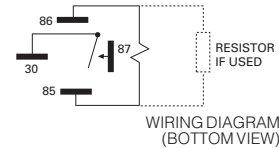
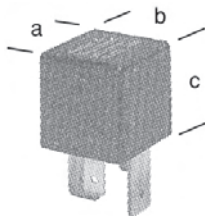
NOTE: Contact your Electro Sonic sales representative for pricing.

BRACKET MOUNT WIRING HARNESS STYLE CONNECTOR FOR USE WITH VF4 QUICK CONNECT RELAYS

Cat. No.	Net Price
VCF4-1002	\$1.53

CRIMP TERMINALS FOR USE WITH VCF4-1002

Cat. No.	Wire AWG	1 Form A Qty. Required	1 Form C Qty. Required	Net Price
26A1348A	18-20	4	5	\$.17
26A1348B	14-16	4	5	.17
26A1348C	10-12	4	5	.17



VF7 SERIES

70 AMP RELAY WITH PC BOARD OR QUICK CONNECT TERMINALS FOR AUTOMOTIVE APPLICATIONS

FEATURES:

- 1 Form A arrangements.
- Plug-in or PC board terminals.
- Optional mounting bracket.
- Approx. dimensions a(26.5) x b(26.5) x c(25.2h).
- Weight 31g.
- Contact Rating @ 85°C (Form A contacts with nominal coil voltage): 70A @ 14VDC.

VF7 AUTOMOTIVE RELAYS

Cat. No.	Coil			Contacts		Net Price
	Input (VDC)	Res. in Ohms	Nom. Power in W	Arrang.	Amp Rating	
RELAYS WITH DUST COVER						
VF7-11F11	12	72	2.0	SPST-NO	70	\$10.57
VF7-11F12	12	72	2.0	SPST-NO	70	10.77
VF7-11H12	24	288	2.0	SPST-NO	70	10.90
RELAYS WITH DUST COVER & METAL MTG. BRACKET						
VF7-41F11	12	72	2.0	SPST-NO	70	11.05
VF7-41F11-S01	12	72	2.21	SPST-NO	70	10.64
VF7-41H11	24	288	2.0	SPST-NO	70	11.05

VF7-11F11: "1" denotes quick connect terminals.
VF7-11F12: "2" denotes P.C. board terminals.
VF7-41F11-S01: "S01" denotes 680 ohm resistor.

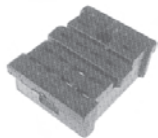
WIRING HARNESS STYLE CONNECTOR FOR VF7 QUICK CONNECT

Cat. No.	Net Price
VCF7-1000	\$.99

CRIMP TERMINALS FOR USE WITH VCF7-1000

Cat. No.	Wire AWG	Qty. Required	Function
26A1350A	10-12	2	Load Connection
26A1350B	6-10	2	Load Connection
26A1349B	14-18	2	Coil Connection

NOTE: Contact your Electro Sonic sales representative for pricing.



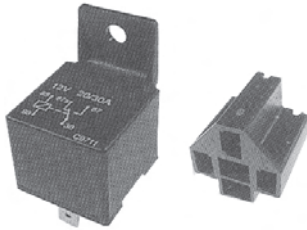
50-901-0



50-910-0

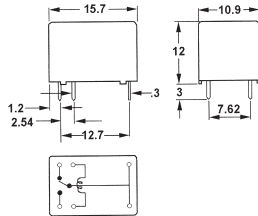
RELAY SOCKETS

Cat. No.	Description	Net Price
OCTAL BASE SOCKET FOR 50-13X AND 50-16X SERIES		
50-910-0	Octal Socket	\$2.50
SOCKETS FOR 50-06X AND 50-09X SERIES		
50-901-0	DPDT PC Mount	1.67
50-902-0	4PDT PC Mount	2.00
50-911-0	DPDT Screw Mount	4.50
50-912-0	4PDT Screw Mount	6.25



12VDC AUTOMOTIVE RELAYS

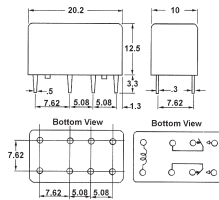
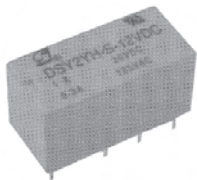
Cat. No.	Description	Net Price
50-836-0	SPDT 30 AMP	\$2.92
50-836H-0	SPDT 40 AMP	3.33
SOCKET HOUSING FOR AUTO RELAYS		
50-920-0	c/w 6 terminals	.83



3 AMP PC RELAYS

SPECIFICATIONS:
Contact Resistance: 100mΩ max.
Operate Time: 10ms max.
Release Time: 5ms max.
Insulation Resistance: 100MΩ min.
Mechanical Life: 10M cycles
Electrical Life: 500K cycles
Resistive Load: 3A @ 38VDC or 120VAC

Cat. No.	Circuitry	Oper. Volt.	Coil Res.	Net Price
50-330-0	SPDT	5VDC	120Ω	\$1.42
50-331-0	SPDT	6VDC	180Ω	1.42
50-333-0	SPDT	12VDC	700Ω	1.42
50-334-0	SPDT	24VDC	2800Ω	1.42

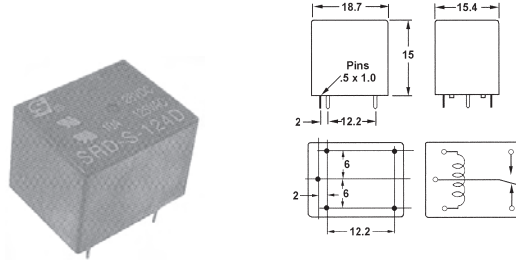


1 AMP PC RELAYS (16-PIN DIP)

SPECIFICATIONS:
Contact Resistance: 50mΩ max.
Operate Time: 10ms max.
Release Time: 4ms max.

Insulation Resistance: 100MΩ min.
Mechanical Life: 100M cycles
Electrical Life: 100K cycles
Resistive Load: 1A @ 30VDC or .3A @ 125VAC

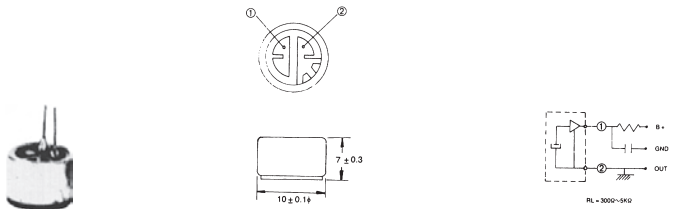
Cat. No.	Circuitry	Oper. Volt.	Coil Res.	Net Price
50-430-0	2C	5VDC	125Ω	\$2.75
50-433-0	2C	12VDC	720Ω	3.33
50-434-0	2C	24VDC	2880Ω	3.08
50-435-0	2C	48VDC	4600Ω	3.00



10 AMP PC RELAYS

SPECIFICATIONS:
Contact Resistance: 100mΩ max.
Operate Time: 8ms max.
Release Time: 5ms max.
Insulation Resistance: 100MΩ min.
Mechanical Life: 10M cycles
Electrical Life: 100K cycles
Resistive Load: 10A @ 28VDC or 10A @ 125VAC
Inductive Load: 3A @ 28VDC or 3A @ 125VAC

Cat. No.	Circuitry	Oper. Volt.	Coil Res.	Net Price
50-530-0	SPDT	5VDC	70Ω	\$1.33
50-533-0	SPDT	12VDC	400Ω	1.33
50-534-0	SPDT	24VDC	1600Ω	1.33
50-535-0	SPDT	48VDC	6400Ω	1.50



ELECTRET MICROPHONE CARTRIDGE

Pattern: Omni-directional
Impedance: same as load resistance.
Sensitivity: -69db (Vcc=4.5V RL=1KΩ)
Freq. response: 50Hz-13KHz
Operating voltage: 1.5V-10 (Typ. 4.5V)
Current: .6mA maximum
S/N ratio: over 40db

Cat. No.	Net Price
72-160-0	\$1.33



70-218-0

EARPHONES

EARPHONES

Cat. No.	Imp.	Plug	Cord	Type	Net Price
70-216-0	8Ω	3.5mm	3' Plain, Black	Dynamic	\$1.13
70-217-0	8Ω	3.5mm	6' Plain, Beige	Dynamic	1.30
70-218-0	8Ω	3.5mm	3' Twisted, Beige	Dynamic	1.55
70-220-0	8Ω	2.5mm	3' Plain, Black	Dynamic	1.13
70-265-0	High	3.5mm	3' Plain, Beige	Crystal	1.83