

**DISCONTINUED PRODUCT
NOTIFICATION**

SUBJECT: EXB-F/ Z/ L/ U SIP Leaded Resistor Network Discontinuation

BULLETIN #: PG42092199

Date: September 21, 1999

LAST TIME BUY: October 31, 1999

LAST TIME SHIPMENT: March 31, 2000

SUGGESTED REPLACEMENT: No Direct Replacement available

- All of the part numbers within the following SIP Leaded Resistor Network Series will be Discontinued:
 - EXB-F**
 - EXB-Z**
 - EXB-L**
 - EXB-U**
- No Direct Replacement is available from Panasonic although other resistor vendors may offer a drop in replacement. Please contact the Resistor Products Resident engineer or Product Group.
- Recommended Replacement is to change to Surface Mount Resistor Products. These products are not drop in replacements. Printed circuit board designs and manufacturing processes will have to be changed to use the Surface Mount Resistor Products.
Surface Mount Resistor Products are as follows;
 - Chip Resistor Network (EXB-A, EXB-D10E, EXB-E10C)
 - Chip Resistor Array (EXB-2, EXB-3, EXB-V, EXB-S8V)
 - Mini-Flat Package Resistor Network (EXB-M)

Comparison for Part Number (Resistor Networks)

&:Resistance tolerance (J : ±5%, G : ±2%, F : ±1%)

*** : Nominal resistance value (Example: 103)

: Special code

? : Package

Circuit	Panasonic	KOA	Murata	Tama electric	Fukushima futaba
Common terminal 2.54mm pitch 125mW / element	EXBF4E***&??	RKLB3???***&	RGLD3X***&???	MRGLC04X***&	SE3***&
	EXBF5E***&??	RKLB4???***&	RGLD4X***&???	MRGLC05X***&	SE4***&
	EXBF6E***&??	RKLB5???***&	RGLD5X***&???	MRGLC06X***&	SE5***&
	EXBF7E***&??	RKLB6???***&	RGLD6X***&???	MRGLC07X***&	SE6***&
	EXBF8E***&??	RKLB7???***&	RGLD7X***&???	MRGLC08X***&	SE7***&
	EXBF9E***&??	RKLB8???***&	RGLD8X***&???	MRGLC09X***&	SE8***&
	EXBF10E***&?	RKLB9???***&	RGLD9X***&???	MRGLC10X***&	SE9***&
	EXBF11E***&?	RKLB10???***&	RGLD10X***&???	MRGLC11X***&	SE10***&
	EXBF12E***&?	RKLB11???***&	RGLD11X***&???	MRGLC12X***&	SE11***&
	EXBF13E***&?		RGLD12X***&???	MRGLC13X***&	SE12***&
EXBF14E***&?			MRGLC14X***&		
Isolated 2.54mm pitch 200mW / element	EXBF4V***&??	RKLB2S???***&	RGLD2Y***&???	MRGLC04W***&	SI2***&
	EXBF6V***&??	RKLB3S???***&	RGLD3Y***&???	MRGLC06W***&	SI3***&
	EXBF8V***&??	RKLB4S???***&	RGLD4Y***&???	MRGLC08W***&	SI4***&
	EXBF10V***&?	RKLB5S???***&	RGLD5Y***&???	MRGLC10W***&	SI5***&
	EXBF12V***&?	RKLB6S???***&	RGLD6Y***&???	MRGLC12W***&	SI6***&
EXBF14V***&?		RGLD7Y***&???	MRGLC14W***&	SI7***&	
Common terminal Center common 2.54mm pitch 125mW / element	EXBF5C***&??	RKLB4C???***&		MRGLC05Y***&	
	EXBF7C***&??	RKLB6C???***&		MRGLC07Y***&	
	EXBF9C***&??	RKLB8C???***&		MRGLC09Y***&	
	EXBF11C***&??	RKLB10C???***&		MRGLC11Y***&	
	EXBF13C***&?			MRGLC13Y***&	
Common terminal Both ends common 2.54mm pitch 125mW / element	EXBF5T***&??	RKLB3D???***&		MRGLC05R***&	
	EXBF6T***&??	RKLB4D???***&		MRGLC06R***&	
	EXBF7T***&??	RKLB5D???***&		MRGLC07R***&	
	EXBF8T***&??	RKLB6D???***&		MRGLC08R***&	
	EXBF9T***&??	RKLB7D???***&		MRGLC09R***&	
	EXBF10T***&?	RKLB8D???***&		MRGLC10R***&	
	EXBF11T***&?	RKLB9D???***&		MRGLC11R***&	
	EXBF12T***&?	RKLB10D???***&		MRGLC12R***&	
EXBF13T***&?			MRGLC13R***&		
EXBF14T***&?			MRGLC14R***&		
Series 2.54mm pitch 125mW / element	EXBF4N***&??	RKL3A???***&		MRGLC04V***&	
	EXBF5N***&??	RKL4A???***&		MRGLC05V***&	
	EXBF6N***&??	RKL5A???***&		MRGLC06V***&	
	EXBF7N***&??	RKL6A???***&		MRGLC07V***&	
	EXBF8N***&??	RKL7A???***&		MRGLC08V***&	
	EXBF9N***&??	RKL8A???***&		MRGLC09V***&	
	EXBF10N***&?	RKL9A???***&		MRGLC10V***&	
	EXBF11N***&?	RKL10A???***&		MRGLC11V***&	
	EXBF12N***&?	RKL11A???***&		MRGLC12V***&	
	EXBF13N***&?			MRGLC13V***&	
EXBF14N***&?			MRGLC14V***&		
Line terminator 2.54mm pitch 125mW / element	EXBF6W###&??	RKL8R???***/**&	RGLD8Z***&***&???	MRGLC06D***/**&	SW8***/**&
	EXBF7W###&??	RKL10R???***/**&	RGLD10Z***&***&???	MRGLC07D***/**&	SW10***/**&
	EXBF8W###&??	RKL12R???***/**&	RGLD12Z***&***&???	MRGLC08D***/**&	SW12***/**&
	EXBF9W###&??	RKL14R???***/**&	RGLD14Z***&***&???	MRGLC09D***/**&	SW14***/**&
	EXBF10W###&?	RKL16R???***/**&	RGLD16Z***&***&???	MRGLC10D***/**&	SW16***/**&
	EXBF11W###&?	RKL18R???***/**&	RGLD18Z***&***&???	MRGLC11D***/**&	SW18***/**&
	EXBF12W###&?			MRGLC12D***/**&	SW20***/**&
	EXBF13W###&?			MRGLC13D***/**&	
EXBF14W###&?			MRGLC14D***/**&		
Voltage divider Homogeneous res. 2.54mm pitch 125mW / element	EXBF5B***&??	RKL4E???***/**&		MRGLC05S***/**&	
	EXBF7B***&??	RKL6E???***/**&	RGLD6M***&***&???	MRGLC07S***/**&	
	EXBF9B***&??	RKL8E???***/**&	RGLD8M***&***&???	MRGLC09S***/**&	
	EXBF11B***&?	RKL10E???***/**&	RGLD10M***&***&???	MRGLC11S***/**&	
	EXBF13B***&?		RGLD12M***&***&???	MRGLC13S***/**&	
Voltage divider Different kind res. 2.54mm pitch 125mW / element	EXBF5G###&??	RKL4E???***/**&		MRGLC05S***/**&	
	EXBF7G###&??	RKL6E???***/**&	RGLD6M***&***&???	MRGLC07S***/**&	
	EXBF9G###&??	RKL8E???***/**&	RGLD8M***&***&???	MRGLC09S***/**&	
	EXBF11G###&?	RKL10E???***/**&	RGLD10M***&***&???	MRGLC11S***/**&	
	EXBF13G###&?		RGLD12M***&***&???	MRGLC13S***/**&	

Comparison for Part Number (Resistor Networks)

&: Resistance tolerance (J : $\pm 5\%$, G : $\pm 2\%$, F : $\pm 1\%$)

*** : Nominal resistance value (Example: 103)

: Special code

? : Package

Circuit	Panasonic	KOA	Murata		Fukushima futaba
R/2R Ladder 2.54mm pitch 62.5mW / element		RKC4L???*?			
		RKC5L???*?			
		RKC6L???*?			
		RKC7L???*?			
	EXBLD8***&?				10LD***&
	EXBLD12***&?				
R/2R Ladder 2.54mm pitch 20mW / element					
	EXBF10D***&?				
2 ⁿ⁻¹ Ladder 2.54mm pitch 50mW / element	EXBLE5***&?				
	EXBLE6***&?				
	EXBLE7***&?				
	EXBLE8***&?				

Comparison for Part Number (Resistor Networks)

&:Resistance tolerance (J : ±5%, G : ±2%, F : ±1%)

*** : Nominal resistance value (Example: 103)

: Special code

? : Package

\$\$\$: Resistance value (Example: 10k ohms)

Circuit	Panasonic	KOA	Murata	Tomo electric	Fukushima futaba
Common termin 2.50mm pitch 125mW / element	EXBP84***&				
	EXBP85***&				
	EXBP86***&				
	EXBP87***&				
	EXBP88***&				
	EXBP89***&				
	EXBP810***&				
	EXBP811***&				
Common termin 2.54mm pitch 125mW / element	EXBR84***&?	RKC1/8B4??*\$\$\$&			SHE4***&
	EXBR85***&?	RKC1/8B5??*\$\$\$&			SHE5***&
	EXBR86***&?	RKC1/8B6??*\$\$\$&			SHE6***&
	EXBR87***&?	RKC1/8B7??*\$\$\$&			SHE7***&
	EXBR88***&?	RKC1/8B8??*\$\$\$&			SHE8***&
	EXBR89***&?	RKC1/8B9??*\$\$\$&			SHE9***&
	EXBR810***&?	RKC1/8B10??*\$\$\$&			SHE10***&
	EXBR811***&?	RKC1/8B11??*\$\$\$&			SHE11***&
Isolated 2.50mm pitch 250mW / element	EXBT43***&				
	EXBT44***&				
	EXBT45***&				
	EXBT46***&				
Isolated 2.54mm pitch 250mW / element	EXBC43***&?	RKC1/8B3S??*\$\$\$&			SHI3***&
	EXBC44***&?	RKC1/8B4S??*\$\$\$&			SHI4***&
	EXBC45***&?	RKC1/8B5S??*\$\$\$&			SHI5***&
	EXBC46***&?	RKC1/8B6S??*\$\$\$&			SHI6***&
	EXBC48***&?	RKC1/8B8S??*\$\$\$&			
Series 2.50mm pitch 125mW / element	EXBS84***&				
	EXBS85***&				
	EXBS86***&				
	EXBS87***&				
	EXBS88***&				
	EXBS89***&				
	EXBS810***&				
	EXBS811***&				
Series 2.54mm pitch 125mW / element	EXBQ84***&?	RKC4A??*?***&			
	EXBQ85***&?	RKC5A??*?***&			
	EXBQ86***&?	RKC6A??*?***&			
	EXBQ87***&?	RKC7A??*?***&			
	EXBQ88***&?	RKC8A??*?***&			
	EXBQ89***&?	RKC9A??*?***&			
	EXBQ810***&?	RKC10A??*?***&			
	EXBQ811***&?	RKC11A??*?***&			
	EXBQ812***&?	RKC12A??*?***&			
	EXBQ813***&?	RKC13A??*?***&			
Line terminator 2.54mm pitch 125mW / element	EXBW88###&?	RKC8R??*?***&			
	EXBW812###&?	RKC12R??*?***&			
	EXBW816###&?	RKC16R??*?***&			
Voltage divider Homogeneous r 2.50mm pitch 125mW / element	EXBB86***&				
	EXBB88***&				
	EXBB810***&				
Voltage divider Homogeneous r 2.54mm pitch 125mW / element	EXBK86***&?	RKC6E??*?***&			
	EXBK88***&?	RKC8E??*?***&			
	EXBK810***&?	RKC10E??*?***&			
Common termin 2.50mm pitch 250mW / element	EXBP45***&				
	EXBP46***&				
	EXBP47***&				
	EXBP48***&				
	EXBP49***&				
	EXBP410***&				
	EXBP411***&				
	EXBP412***&				
Common termin 2.54mm pitch 250mW / element	EXBR45***&?	RKH1/4B5***J			FRC5***&
	EXBR46***&?	RKH1/4B6***J			FRC6***&
	EXBR47***&?	RKH1/4B7***J			FRC7***&
	EXBR48***&?	RKH1/4B8***J			FRC8***&
	EXBR49***&?	RKH1/4B9***J			FRC9***&
	EXBR410***&?	RKH1/4B10***J			FRC10***&
	EXBR411***&?	RKH1/4B11***J			FRC11***&
	EXBR412***&?	RKH1/4B12***J			FRC12***&
Isolated 2.50mm pitch 333mW / element	EXBT33***&				
	EXBT34***&				
	EXBT35***&				
	EXBT36***&				
	EXBT37***&				
Isolated 2.54mm pitch 333mW / element	EXBC33***&?	RKH1/2B3S***J			
	EXBC34***&?	RKH1/2B4S***J			
	EXBC35***&?	RKH1/2B5S***J			
	EXBC36***&?	RKH1/2B6S***J			
Series 2.50mm pitch 125mW / element	EXBS45***&				
	EXBS46***&				
	EXBS47***&				
	EXBS48***&				
	EXBS49***&				
	EXBS410***&				
	EXBS411***&				
	EXBS412***&				
Series 2.54mm pitch 125mW / element	EXBQ45***&?	RKH5A***&			
	EXBQ46***&?	RKH6A***&			
	EXBQ47***&?	RKH7A***&			
	EXBQ48***&?	RKH8A***&			
	EXBQ49***&?	RKH9A***&			
	EXBQ410***&?	RKH10A***&			
	EXBQ411***&?	RKH11A***&			
	EXBQ412***&?	RKH12A***&			
EXBQ413***&?					
EXBQ415***&?					

Comparison for Part Number (Resistor Networks)

&:Resistance tolerance (J : ±5%, G : ±2%, F : ±1%)

*** : Nominal resistance value (Example: 103)

: Special code

? : Package

Circuit	Panasonic	KOA	Murata	Tama electric	Fukushima futaba
Common terminal 100mW / element	EXBZ4E***&				NSS3E***&
			RGLE4X***&		NSS4E***&
	EXBZ6E***&		RGLE5X***&		
	EXBZ7E***&				NSS6E***&
	EXBZ8E***&				NSS7E***&
	EXBZ9E***&				NSS8E***&
	EXBZ10E***&				NSS9E***&
	EXBZ11E***&				NSS10E***&
	EXBZ12E***&				NSS11E***&
	EXBZ13E***&				NSS12E***&
	EXBZ14E***&				NSS13E***&
	EXBZ15E***&				NSS14E***&
	EXBZ16E***&				NSS15E***&
	EXBZ17E***&				
	EXBZ18E***&				NSS17E***&
	EXBZ20E***&				NSS18E***&
	Isolated 1.78mm pitch 125mW / element	EXBZ4V***&			
EXBZ6V***&					
EXBZ8V***&					
EXBZ10V***&					
EXBZ12V***&					
EXBZ14V***&				RGLE7Y***&	
			RGLE8Y***&		
EXBZ18V***&					
EXBZ20V***&					
Common terminal Center common 100mW / element					
	EXBZ7C***&				
	EXBZ9C***&				
	EXBZ13C***&				
EXBZ15C***&					
EXBZ19C***&					
Both ends common 1.78mm pitch	EXBZ5T***&				
	EXBZ6T***&				
	EXBZ8T***&				
	EXBZ9T***&				
	EXBZ10T***&				
	EXBZ12T***&				
	EXBZ13T***&				
EXBZ15T***&					
EXBZ16T***&					
EXBZ18T***&					
EXBZ19T***&					
Series 1.78mm pitch	EXBZ4N***&				
	EXBZ6N***&				
	EXBZ7N***&				
	EXBZ8N***&				
	EXBZ10N***&				
	EXBZ11N***&				
	EXBZ13N***&				
EXBZ14N***&					
EXBZ16N***&					
EXBZ17N***&					
EXBZ19N***&					
EXBZ20N***&					
Line terminator 100mW / element	EXBZ7W###&				
	EXBZ8W###&				
	EXBZ10W###&				
	EXBZ11W###&				
	EXBZ13W###&				
	EXBZ14W###&				
	EXBZ16W###&				
EXBZ17W###&					
EXBZ19W###&					
EXBZ20W###&					
Voltage divider Homogeneous resistor 1.78mm pitch 100mW / element	EXBZ7B***&				
	EXBZ9B***&				
	EXBZ11B***&				
	EXBZ13B***&				
	EXBZ15B***&				
EXBZ17B***&					