Panasonic
Electronic Components

DISCONTINUATION NOTICE

SUBJECT : Discontinuation of Leaded NS-B, RS, and GL Series of Ceramic Disc Capacitors Sub-Class Y2, X1 Noise Suppression / 'Safety' Capacitors

BULLETIN # : DN.PG33.082002-1 **DATE : August 20, 2002**

REASON FOR CHANGE :

Reducing the number of types offered and offering an alternative which meets the latest standards

EFFECTIVE DATE : January 1, 2003

	LAST-TIME ORDER	LAST-TIME SHIPMENT
ECKxRSxxxxxY	Already discontinued	Already discontinued
ECKxGLxxxxx	September 30, 2002	December 31, 2002
ECKxNBxxxx	September 30, 2002	December 31, 2002

SUGGESTED REPLACEMENT / ALTERNATIVE: TS Series, ECK-xTSxxxxx

OTHER DETAILS :

Below is a comparison of the Standards, Rated Voltages, and Temperature Ranges

Organization	Standard	Sub-Class	Rated Voltage	Temperature Range
NS-B, RS, and TS Series:				
BSI	BSI 415, 1994	Y2 / X1	for NS-B / RS: Y2 is 125 Vac X1 is 400 Vac for TS: Y2 is 250 Vac X1 is 440 Vac	for NS-B / RS: -25 to 85 °C for TS: -25 to 125 °C
VDE SEV SEMKO FIMKO NEMKO DEMKO	EN 132 400, 1995 (IEC 384-14, 2nd Ed)			
UL CSA	UL 1414 CSA C22.2, No. 1	____	250 Vac	-25 to 85 °C
GL Series:				
UL CSA	UL 1414 CSA C22.2, No. 1	____	250 Vac	-25 to 85 °C

See the attached table that indicates the mechanical differences of Diameter D and Lead spacing F

Reference: LCR Marketing Group 7/08/02 Notification

Panasonic Industrial Company, Product Management Division - Components Group
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Suggested TS Series Alternatives to Discontinued Ceramic Disc ECK NS-B, RS, and GL Series comparing the mechanical dimensions; Diameter (D) and Lead Spacing (F)

Suggested Alternatives to Panasonic NS-B Series Part Numbers

Type NS-B				Type TS		
Parts No.	Diameter D	Lead Space F		Parts No.	Diameter D	Lead Space F
ECK0NB101 r B	10.5 max.	7.5		ECK0TS101 r B	7.0 ± 1.0	7.5
ECK0NB221 r B	10.5 max.	7.5		ECK0TS221 r B	7.0 ± 1.0	7.5
ECK0NB471 r B	10.5 max.	7.5	⇨	ECK0TS471 r B	7.0 ± 1.0	7.5
ECK0NB102 r B	10.5 max.	7.5		ECK0TS102ME	7.0 ± 1.0	7.5
ECK0NB152ME	10.5 max.	7.5		ECK0TS152ME	8.0 ± 1.0	7.5
ECK0NB222ME	10.5 max.	7.5		ECK0TS222ME	9.0 ± 1.0	7.5
ECK0NB332ME	13.0 max.	10		ECK0TS332ME	11.5 ± 1.0	7.5
ECK0NB472ME	16.0 max.	10		ECK0TS472ME	14.0 ± 1.0	10

Suggested Alternatives to Panasonic RS Series Part Numbers

Type RS				Type TS		
Parts No.	Diameter D	Lead Space F		Parts No.	Diameter D	Lead Space F
ECK0RS101 r BY	9.5 max.	7.5		ECK0TS101 r B	7.0 ± 1.0	7.5
ECK0RS221 r BY	9.5 max.	7.5		ECK0TS221 r B	7.0 ± 1.0	7.5
ECK0RS471 r BY	9.5 max.	7.5	⇨	ECK0TS471 r B	7.0 ± 1.0	7.5
ECK0RS102 r BY	10.0 max.	7.5		ECK0TS102ME	7.0 ± 1.0	7.5
ECK0RS152MEY	10.0 max.	7.5		ECK0TS152ME	8.0 ± 1.0	7.5
ECK0RS222MEY	10.5 max.	7.5		ECK0TS222ME	9.0 ± 1.0	7.5
ECK0RS332MEY	12.5 max.	7.5		ECK0TS332ME	11.5 ± 1.0	7.5
ECK0RS472MEY	16.0 max.	10		ECK0TS472ME	14.0 ± 1.0	10

Suggested Alternatives to Panasonic GL Series Part Numbers

Type GL				Type TS		
Parts No.	Diameter D	Lead Space F		Parts No.	Diameter D	Lead Space F
ECK0GL101MB	8.0 max.	7.5		ECK0TS101MB	7.0 ± 1.0	7.5
ECK0GL221MB	8.0 max.	7.5		ECK0TS221MB	7.0 ± 1.0	7.5
ECK0GL471MB	9.0 max.	7.5		ECK0TS471MB	7.0 ± 1.0	7.5
ECK0GL102ME	9.0 max.	7.5	⇨	ECK0TS102ME	7.0 ± 1.0	7.5
ECK0GL152ME	11.0 max.	7.5		ECK0TS152ME	8.0 ± 1.0	7.5
ECK0GL222ME	12.0 max.	7.5		ECK0TS222ME	9.0 ± 1.0	7.5
ECK0GL332ME	15.0 max.	10		ECK0TS332ME	11.5 ± 1.0	7.5
ECK0GL472ME	17.0 max.	10		ECK0TS472ME	14.0 ± 1.0	10
ECK0GL103ZV	17.0max.	10		ECK0TS103MF	16.0 ± 1.5	10

Notes:

(1) 0 is the Lead style : A (Kinked Long Lead), N (Kinked Taping), M (Short Lead), E (Kinked short Lead), Z (Straight Type) , D (Straight Long Lead)

(2) r is the Capacitance Tolerance: K (±10%), M (±20%)