

KBR, -M, -MS, -MSA Series Ceramic Resonators

MHz Band Ceramic Resonators

f_0 : 2.00 to 12.00 MHz

FEATURES

- 1) Ultracompact, lightweight design
- 2) Resistant to damage from impact and vibration
- 3) Excellent temperature stability ($\pm 0.3\%$)
- 4) Low cost

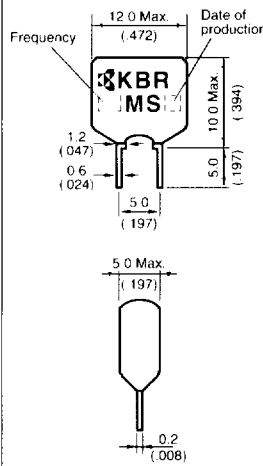
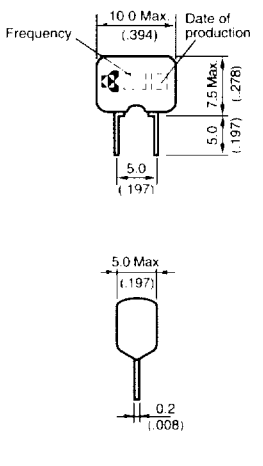
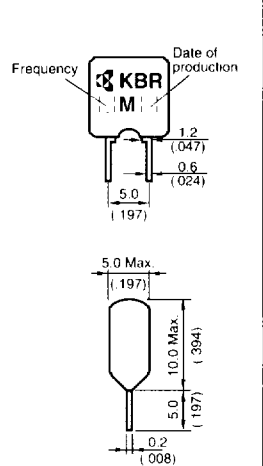
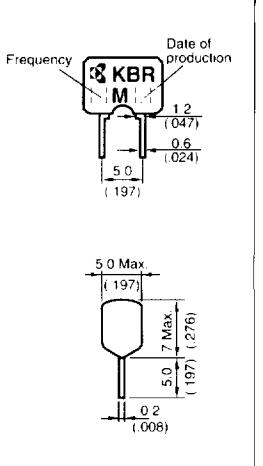
HOW TO ORDER

KBR - 4.00 MSA TR

- ① Type: (Kyocera Bulk Resonator)
- ② Oscillation frequency (MHz)
- ③ Resonator type:
M = 6.01 to 12.00 MHz
MS = 2.00 to 3.57 MHz
MSA = 3.58 to 6.00 MHz
- ④ Packaging:
TR = tape and reel
□ = bulk



SPECIFICATIONS (KBR- MS / KBR- MSA / KBR- M Series)

Series	MS	MSA	M	M
Dimension	Fig. A	Fig. B	Fig. C	Fig. D
Oscillation Frequency	2.00 to 3.57 MHz	3.58 to 6.00 MHz	6.01 to 6.99 MHz	7.00 to 12.00 MHz
Frequency Tolerance	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$
Resonant Impedance	100 Ω Max	30 Ω Max	40 Ω Max	40 Ω Max
Temperature Characteristic (-20 to +80°C)	$\pm 0.3\%$	$\pm 0.3\%$	$\pm 0.5\%$	$\pm 0.5\%$
Standard Frequency	2.00, 2.50, 3.00 MHz	3.58, 4.00, 4.19, 5.00, 6.00 MHz		8.00, 11.00, 12.00 MHz
DIMENSIONS	Fig. A 	Fig. B 	Fig. C 	Fig. D 
	Unit: mm (inch)	Unit: mm (inch)	Unit: mm (inch)	Unit: mm (inch)

KBR-3.58MSA - 200 series for Telephone D.T.M.F. Applications

P/N	Frequency	Frequency Tolerance	Resonant Resistance	Temperature Stability (-20 to +80°C)	Dimensions
KBR-3.58MSA-201	3.5795MHz	+0 -0.25%	30 Ω Max	$\pm 0.3\%$	Fig. B
KBR-3.58MSA-202		+0.15 -0.10%			
KBR-3.58MSA-203		+0.30 -0.05%			
KBR-3.58MSA-204		+0.45 +0.20%			
KBR-3.58MSA-205		+0.60 +0.35%			
KBR-3.58MSA-206		-0.30 -0.55%			
KBR-3.58MSA-207		-0.15 -0.40%			

TEST CIRCUIT

