

Chip Ceramic Discriminator for FM receiver

Token Offers Compact Low-Cost Low Power Processor Chip Ceramic Discriminator for FM (JTCV10.7M)

► Preview

Token takes advantages of chip ceramic discriminators which convert the changes in frequency into an audio signal via the various detection methods based on impedance or phase characteristics of piezoelectrics technology. The incorporation of piezoelectrics technology allows the product's function and feature set to be easily configured via surface mount installation.

The discriminator functions to convert the change of the frequency into audio frequency, an unique system of detection only used for FM broadcasting. The detection of FM wave is made through the circuit in which the relation between the frequency and the output voltage is linear. FM wave detection methods, such as ratio detection, Foster-Seeley detection, quadrature detection, differential peak detection, etc. are known.

Chip Ceramic discriminators JTCV10.7M for FM are resonated devices that offer adjustment free audio detection in both wide and narrow bandwidths. These IC dependent devices utilize FM specific detection methods to convert changes in frequency into an intelligible audio signal.

Custom parts are available on request. Token will also produce devices outside these specifications to meet specific customer requirements, please contact our sales for more information.



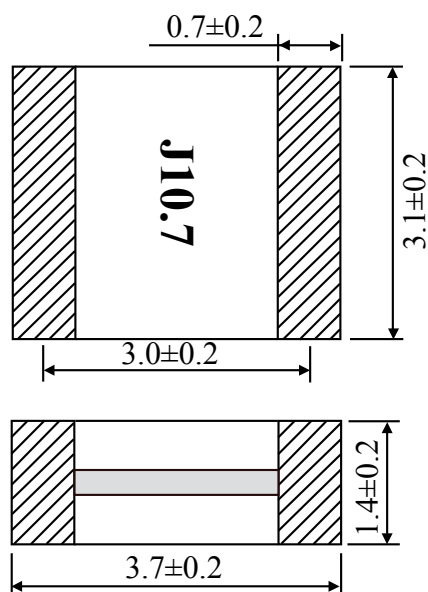
Characteristics :

1. Center Frequency: 10.7MHz.
2. Storage temperature range: -40°C to +85°C.
3. Operating temperature range: -20°C to +80°C.
4. Dimensions: (3.7±0.2 x 3.1±0.2 x 1.4±0.2) Unit: mm.
5. Available IC: CX-2009, CX-20111, CXA1019M, CX-20091, μ PC1028H, LA1150, TA7303P, TA7130, TA8122AN, TA8132N, TA2007, TA2104AFN, TA2099N, TA2132P.

Features :

1. High sensitivity and stability.
2. Small in size and light weight.
3. Wide range of standard products are available for various ICs.

► Dimensions

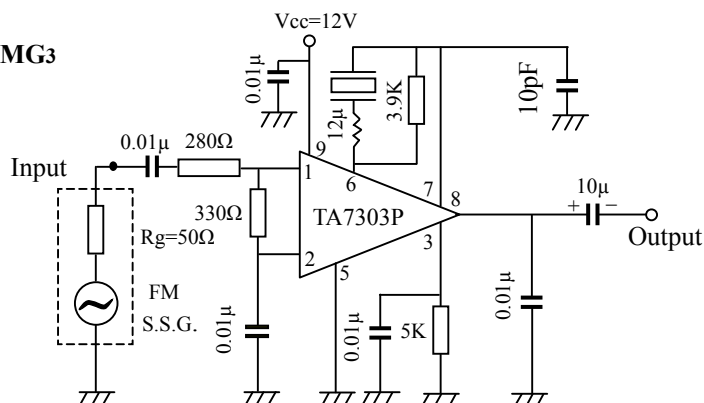


► Technical Characteristics

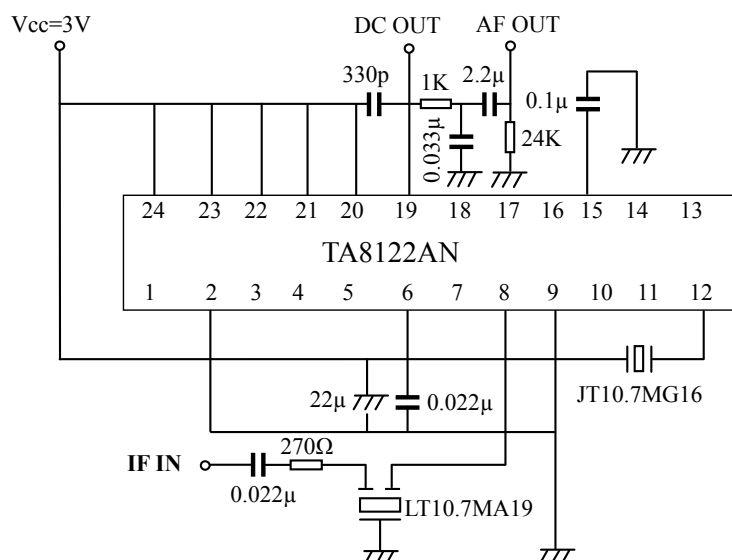
Part Number	Demodulation Output at fo(mv) min	Distortion Factor at fo(%) max	Demodulation 3dB Band Width(KHz) max	Applicable IC
JTCV10.7MG1	25	1.0	345	CX-2009, CX-20111
JTCV10.7MG3	650	1.0	±150	TA7303P, TA7130, μ PC1028H, LA1150
JTCV10.7MG16	60~90	0.9	300	TA8122AN
JTCV10.7MG18	60~90	0.9	300	TA8132N
JTCV10.7MG33	45	0.7	250	TA2007
JTCV10.7MG80	65	1.0	300	TA2104AFN
JTCV10.7MG82	90	0.8	320	TA2099N
JTCV10.7MG92	60	1.0	300	TA2132P
JTCV10.7MC1	35	1.0	242	CXA1019M, CX-20091

▶ Test Circuit

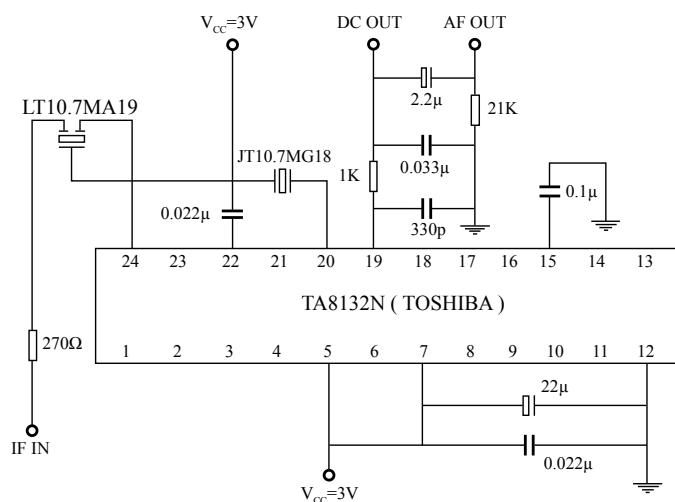
JTTV10.7MG₃



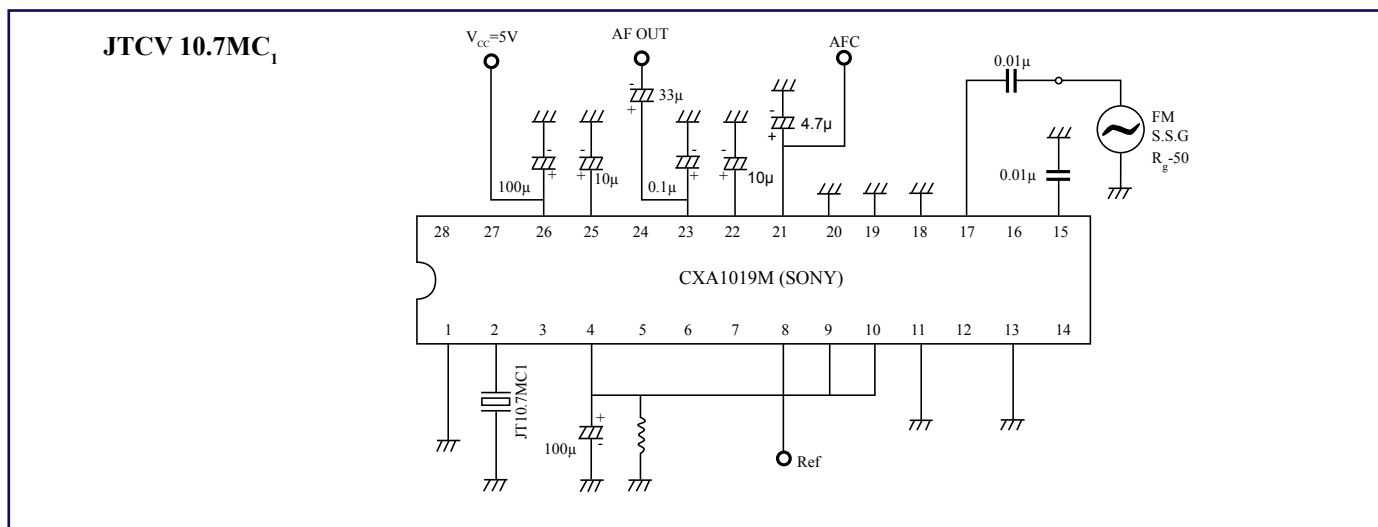
JTCV10.7MG₁₆



JTCV 10.7MG₁₈



▶ Test Circuit



▶ How to Order

JTCV10.7MG3

TR

❶

❷

❶ Part Number

❷ Package (TR:Taping Reel)

Back to 1st Page - Ceramic Discriminator JTCV10.7M