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# DIRECT

## Electronics Tech.

### (JTM) Ceramic Discriminators

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## ▶ Product Introduction

### Introduction (JTM)

#### Characteristics :

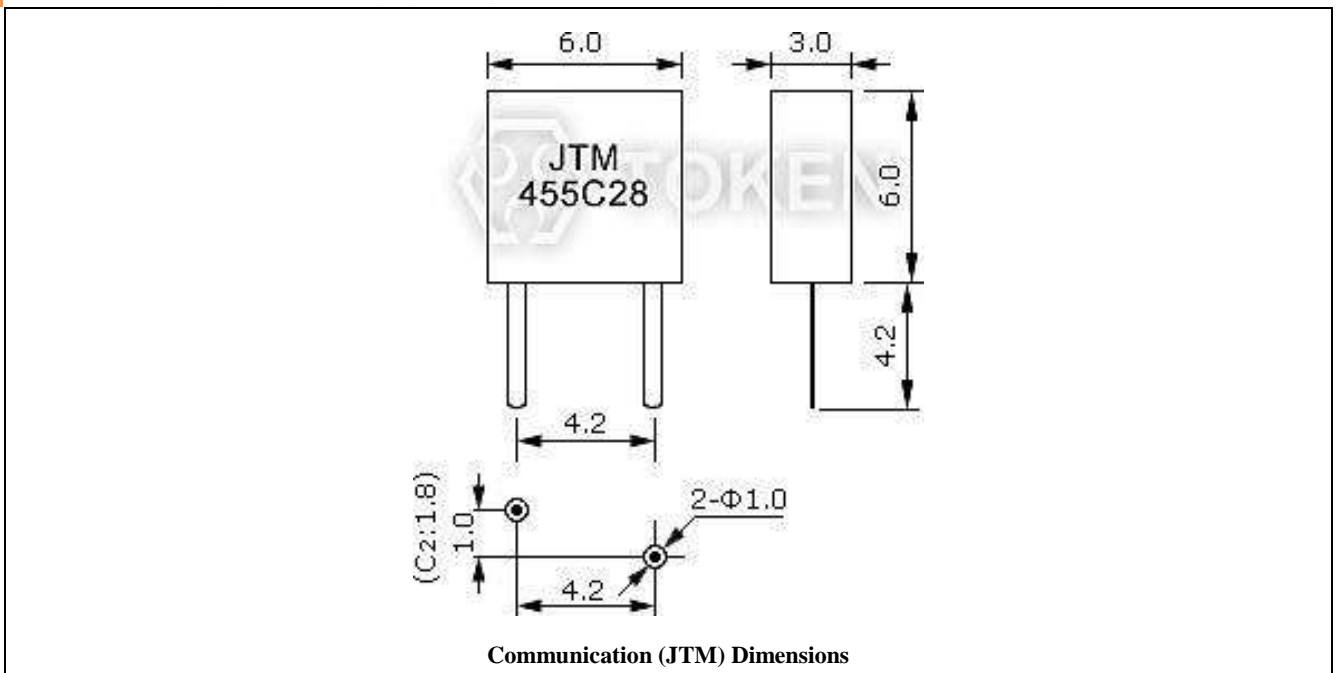
- Dimensions: (6.0 × 6.0 × 3.0) Unit: mm.
- Storage temperature range: -40°C to +85°C.
- Operating temperature range: -20°C to +80°C.
- Center Frequency: 455±2 (kHz), 447.5±1.5 (kHz), 429.0±2.0 (kHz).
- Available IC: CXA1483M, CXA1484, CXA1184M, CXA3117N, LA8610, NE605, MC3371, TA31136, TA31142, TA31143, TA31147, TA8104, TA8103F.

Ceramic discriminator for communication (JTM) is compatible to Murata CDB/CDBC/CDBM. (JTM) For Communication consists of wide band piezoelectric resonator. It is ideal for mobile communication equipment due to its small size and light weight. Standard line includes products for a wide range of applications, from cordless telephones to cellular telephones, making non-adjustment and shrinking of the detection circuit possible.

Direct (JTM) including features with small in size and lightweight, realize non-adjustment in detection circuit, high sensitivity and stability, wide range of standard products are available for various ICs, operating temperature range: -20°C to +80°C and storage temperature range: -40°C to +85°C.

Contact us with your specific needs. For more information, please link to Direct official website "[Ceramic Discriminator](#)".



**► Dimensions****Dimensions (Unit: mm) (JTM)**

## ► Technical Characteristics

### Technical Characteristics - Group A (JTM)

Part Number	Center Frequency (fo) (kHz)	Recovered Audio 3dB BW (kHz)min	Recovered Audio Output (mV)min	Distortion Factor (At fo) (%)max	Applicable IC
JTM455C18	455±2	±3.0	180±40	2.0	MC3371
JTM455C24	455±2	±4.0	100±40	2.0	TA31136
JTM455C28	455±2	±4.0	40±20	3.0	TA31142
JTM455C29	455±2	±4.0	125±30	2.5	NE605
JTM455C32	455±2	±4.0	40±20	3.0	TA31143
JTM455C47	455±2	-	140±20(fo) 140±20(fo±4.8)	-	TA31147
JTM455C50	455±2	±4.0	64±6.4	4.0	CXA3117N

### Technical Characteristics - Group B (JTM)

Part Number	Resonant Frequency (Fr)(kHz)	Antiresonant Frequency (Fa)(kHz)	Band Width Fa-Fr(kHz)	Resonant Resistance (Ω)max	Capacitance pF±20%	Applicable IC
JTM455C2	447.5±1.5 (at  Z =2.05kΩ)	463.0±1.5 (at  Z =10kΩ)			140	TA8104
JTM455C3		455.0±1.5	48.0±5.0	70	600	CXA1184M
JTM455C4		470.0±1.0	43.0±2.0	300	140	LA8610
JTM455C10	429.0±2.0		51.0±5.0	70	580	TA8103F
JTM455C15		463.5±1.0	43.0±2.0	300	140	CXA1483M
JTM455C25		465.0±1.5	45.0±4.0	300	135	CXA1484

## ► Order Codes

### Order Codes (JTM)

JTM455C24	P
Part Number	Package



▶ **General Information**

**Advantage of Direct Piezoelectric Ceramics**

Direct Electronics had been able to develop specialized piezo materials which when combined with an advance design have resulted in a complete line of practical, inexpensive piezo devices for entertainment and communications applications.

Direct reliably deliver high-quality components according to the each customer special needs with respect to performance, costs, and technology modifications.

For marketing discontinuations or sourcing activities concerning Piezoelectric **Discriminator** products, you are encouraged to contact our Sales Department so the request can be properly directed within Direct.

